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| of goods manu-<br>factured.. | Annual rate of<br>profit on capi-<br>tal employed. | Market.                 | No. of horses. | Remarks.                                                    |
|------------------------------|----------------------------------------------------|-------------------------|----------------|-------------------------------------------------------------|
| 30,000<br>n                  | from 5<br>to 20<br>per ct.                         | N.Y'k.<br>and<br>Phila. | 4              |                                                             |
| -                            | -                                                  | -                       | -              | 120,000 lbs. wool manufa'd annually                         |
| -                            | -                                                  | -                       | -              | 80 tons hemp manufactured in yarn<br>twine, &c.             |
| -                            | -                                                  | -                       | -              | 104,000 lbs. cotton dyed, 224,640<br>umbrellas made.        |
| -                            | -                                                  | -                       | -              | 2,248,760 yds. printed in 1831.                             |
| -                            | -                                                  | -                       | -              | 18,000 yards printed annually.                              |
| -                            | -                                                  | -                       | -              | 1,456,000 yds. dyed and finished.                           |
| -                            | -                                                  | -                       | -              | 1,400,000 yds. finished only, and<br>41,000 lbs. yarn dyed. |
| 00 yds.                      | -                                                  | -                       | -              | 72,800 lbs. yarn dyed in 1831.                              |
| -                            | -                                                  | -                       | -              | 3,000,000 yds. printed annually.                            |
| -                            | -                                                  | -                       | -              | 450,000 yds. dyed in 1831. Est. new                         |
| -                            | -                                                  | -                       | -              | 600,000 yds. dyed in 1831.                                  |
| -                            | -                                                  | -                       | -              | 3,000,000 yds. printed annually.                            |
| illsaws                      |                                                    |                         |                |                                                             |
| do                           |                                                    |                         |                |                                                             |
| spades                       |                                                    |                         |                |                                                             |
| spades                       |                                                    |                         |                |                                                             |
| illsaws                      |                                                    |                         |                |                                                             |

*Executive documents ...*

United States, United States. Congress. House, Congress

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# DOCUMENTS

RELATIVE TO

## THE MANUFACTURES IN THE UNITED STATES,

COLLECTED AND TRANSMITTED

TO THE HOUSE OF REPRESENTATIVES,

In compliance with a resolution of Jan. 19, 1832,

BY THE SECRETARY OF THE TREASURY,

IN TWO VOLUMES.

VOLUME II.

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Printed by order of the House of Representatives.

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WASHINGTON:

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1833.





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- " 192. " Cotton, cloth, bar iron, leather, shovels, cut nails, shovels, hollow ware, in Middleborough, county of Plymouth.
- " 193. " Cotton, chaises, harness, cabinet ware, in Bridgewater, county of Plymouth.
- " 194. " Satinet, cotton, ships, &c., in Pembroke, county of Plymouth.
- " 195. " Cotton, anchors, nails, ropes, rivets, in Plymouth, county of Plymouth.
- " 196. " Nails, tacks, cotton, and woollen, in Plympton, county of Plymouth. \*
- " 197. " Nails, shoes, trunks, leather, hats, ships, in Scituate, county of Plymouth.
- " 198. " Bread, beer, blacking, balances, tin ware, stoves, bedsteads, in the town of Boston, county of Suffolk.
- " 199. " In iron, ships, bricks, brass, copper, tin, and plated ware, barrels, Boston, county of Suffolk.
- " 200. " Books and boats, Boston, county of Suffolk.
- " 201. Statement of cork cutlers, of chemical factories, confectioners, carriage and smiths' chandlers, soap manufacturers, Boston, county of Suffolk.
- " 202. " Comb-makers, coach and chaise-makers, chair-makers, cabinet makers, Boston, county of Suffolk.
- " 203. " Cordage factories, clock factories, distilleries, edge tool factories, Boston, county of Suffolk.
- " 204. " Gilders, glass house, gold beaters, hatters, jewellers, Boston, county of Suffolk.
- " 205. " Hosiery factory, iron foundries, ink makers, hook and eye factory, gunsmiths, hammer factory, grate-makers, Boston, county of Suffolk.
- " 206. " Machinists, leather dressers, fringe and tassel factory, chain cable factory, Boston, county of Suffolk.
- " 207. " Mart makers, mathematical instrument makers, colored paper factory, milliners, mustard factories, Boston, county of Suffolk.
- " 208. " Opticians, organ builders, pocket book factories, riggers, whiting manufacturers, Boston, county of Suffolk.
- " 209. " Painters, glaziers, pump and block-makers, philosophical instrument makers, reed makers, slaters, turpentine factory, saw mill, Boston, county of Suffolk.
- " 210. " Plane makers, piano forte makers, platers, plumbers, paper hanging manufacturers, Boston, county of Suffolk.
- " 211. " Lithographic etching engravers, copper-plate printers, pearl factory, last factory, Boston, county of Suffolk.
- " 212. " Soap stone workers, stone cutters, silver platers, ship scraper and trowell factory, tobaccoonists, fire engine builders, Boston, county of Suffolk.
- " 213. " Stock and suspender factory, surgical instrument and truss-makers, silversmiths, saddlers, harness and trunk-makers, sail-makers, Boston, county of Suffolk.
- " 214. " Tailors, type and stereotype founders, sheet iron workers, twine factory, Boston, county of Suffolk.
- " 215. " Umbrella and cane-makers, whip-makers, upholsterer, wheelwrights, wire-workers, Boston, county of Suffolk.
- " 216. " Sugar refiners, shoe and bootmakers, cordwainers, Boston, county of Suffolk.
- " 217. Letter from Secretary of Treasury to Speaker of Ho. Reps. U. S.
- " 218. Letter from John S. Tyler to commissioners, containing answers to questions propounded in a circular.
- Dec. 3, No. 219. Manufactures of cotton, paper, leather, &c., in Athol, Worcester county.
- " 220. " Cotton, leather, powder, &c., in Barre, "
- " 221. " Hats and leather, in Berlin, "
- " 222. " Combs, hats, leather, lime, cards, in Bolton, "
- " 223. " Books, leather, iron, &c., in Brookfield, "

| Dec. 3, No. 324. Manufactures of Leather, combs, hats, and straw braid, in Boylston, Worcester county. |   |                                                                                    |
|--------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------|
| " 225.                                                                                                 | " | Leather and hats, in Dana, Worcester county.                                       |
| " 226.                                                                                                 | " | Satinet, woollen, and leather, in Dudley, Worcester county.                        |
| " 227.                                                                                                 | " | Cotton, woollens, bobbins, &c., in Fitchburg, "                                    |
| " 228.                                                                                                 | " | Harness, hats, scythes, rakes, &c., in " "                                         |
| " 229.                                                                                                 | " | Woollen, cotton, leather, scythes, &c., in Grafton, Worcester county.              |
| " 230.                                                                                                 | " | Leather, chairs, &c., in Gardner, Worcester county.                                |
| " 231.                                                                                                 | " | Iron, hats, leather, straw braid, in Hardwick, Worcester county.                   |
| " 232.                                                                                                 | " | Leather, cloth, paper, cotton batting, &c., in Harvard, Worcester county.          |
| " 233.                                                                                                 | " | Cotton, leather, woollen, &c., in Holden, Worcester county.                        |
| " 234.                                                                                                 | " | Leather, copperas, cards, chairs, in Hubbardston, Worcester county.                |
| " 235.                                                                                                 | " | Cotton, leather, &c., in Lancaster, Worcester county.                              |
| " 236.                                                                                                 | " | Woollen, cards, leather, wire, in Leicester, "                                     |
| " 237.                                                                                                 | " | Combs, wool, leather, and paper, in Leominster, Worcester county.                  |
| " 238.                                                                                                 | " | Books, chairs, leather, &c., in Lunenburg, Worcester county.                       |
| " 239.                                                                                                 | " | Cotton, machinery, satinet, in Mendon, "                                           |
| " 240.                                                                                                 | " | Satinet, scythes, axes, cotton, in Mendon and Douglass, Worcester county.          |
| " 241.                                                                                                 | " | Cotton, woollen, yarn, cutlery, in Milford, Worcester county.                      |
| " 242.                                                                                                 | " | Woollens, in Millburg, "                                                           |
| " 243.                                                                                                 | " | Cotton, paper, leather, scythes, trowels, in Milford, Worcester county.            |
| " 244.                                                                                                 | " | Woollen and cotton machinery, muskets, rifles, in Milford, Worcester county.       |
| " 245.                                                                                                 | " | Cutlery, leather, and cotton thread, in Milford, Worcester county.                 |
| " 246.                                                                                                 | " | Palm-leaf hats, in New Braintree, Worcester county.                                |
| " 247.                                                                                                 | " | Cotton, leather, &c., in Northborough, "                                           |
| " 248.                                                                                                 | " | Cotton, woollen, leather, and machines, in Northbridge, Worcester county.          |
| " 249.                                                                                                 | " | Woollen, hats, and shoes, in North Brookfield, Worcester county.                   |
| " 250.                                                                                                 | " | Woollen, cotton, satinet, leather, &c., in Oxford, Worcester county.               |
| " 251.                                                                                                 | " | Leather, hats, and ploughs, in Oakham, Worcester county.                           |
| " 252.                                                                                                 | " | " Boots, chairs, in Paxton, "                                                      |
| " 253.                                                                                                 | " | " Palm-leaf hats, in Petersham, "                                                  |
| " 254.                                                                                                 | " | " " Cotton, and satinet, in Phillipston, Worcester county.                         |
| " 255.                                                                                                 | " | Cotton, leather, woollens, and chairs, in Princeton and Rutland, Worcester county. |
| " 256.                                                                                                 | " | Woollens, leather, &c., in Royalston, Worcester county.                            |
| " 257.                                                                                                 | " | Cotton and woollen, in South Bridge, Worcester county.                             |
| " 258.                                                                                                 | " | Cotton, scythes, guns, &c., in Sutton, "                                           |
| " 259.                                                                                                 | " | Leather and cotton, in Sturbridge and Charlton, Worcester county.                  |
| " 260.                                                                                                 | " | Leather, cutlery, hats, &c., in Shrewsbury, Worcester county.                      |
| " 261.                                                                                                 | " | " Straw braid, &c., in Southborough, "                                             |
| " 262.                                                                                                 | " | Woollen, leather, bobbins, &c., in Spencer, "                                      |
| " 263.                                                                                                 | " | Leather, scythes, hats, chairs, in Sterling, "                                     |
| " 264.                                                                                                 | " | " Woollen, tin, iron, &c., in Templeton, Worcester county.                         |
| " 265.                                                                                                 | " | Woollen yarn, leather, &c., in Upton, Worcester county.                            |
| " 266.                                                                                                 | " | Satinet and woollens, in Uxbridge, "                                               |
| " 267.                                                                                                 | " | Cotton, shoes, shuttles, cabinet work, in Uxbridge, Worcester county.              |
| " 268.                                                                                                 | " | Leather, scythes, ploughs, in Ward, Worcester county.                              |
| " 269.                                                                                                 | " | " Ploughs, iron, &c., in Westborough, Worcester co.                                |
| " 270.                                                                                                 | " | Cotton, leather, palm-leaf hats, in West Boylston, Worcester county.               |



- Doc. 3, No. 271. Manufactures of Cotton, scythes, &c., in Western, Worcester county.  
 " 272. " Satinet, chairs, leather, &c., in Westminster, Worcester co.  
 " 273. " Woollen, cotton, and leather, in Winchendon, Worcester co.  
 " 274. " Tin plate, sheet iron, copper, &c., in Worcester, "  
 " 275. " Woollen, iron, satinet, in "  
 " 276. " Cotton and woollens, in Webster, Worcester county.

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- Doc. 4, No. 1. Report from Daniel P. Drown to the Secretary of the Treasury, with the subsequent statements.
- " 2. Statement of the manufactures in Exeter, Rockingham county.
- " 3. " " Derry, do  
 " 4. " " Chester, do  
 " 5. " " Newtown, do  
 " 6. " " New Castle, do  
 " 7. " " Newington, do  
 " 8. " " Greenland, do  
 " 9. " " Portsmouth, do  
 " 10. " " Sea Brook, do  
 " 11. " " Hampton, do  
 " 12. " " Hampton Falls, do  
 " 13. " " Rye, do  
 " 14. " " Northampton, do  
 " 15. " " Stratham, do  
 " 16. " " Nottingham, do
- " 17. Letter from Stephen A. Chase to Daniel P. Drown, enclosing answers to queries proposed by Secretary of Treasury.
- " 18. Answers concerning New Market Manufacturing Company, in the county of Rockingham, appended to No. 17.
- " 19. Statement of D. S. Palmer respecting New Market Manufacturing Company, Rockingham county.
- " 20. " Manufactures of New Market, Rockingham county. "
- " 21. " Exeter cotton manufactory, "
- " 22. " Manufactures of Hampstead, "
- " 23. " Workshop and household manufactures of Hawke, Rockingham county.
- " 24. " Workshop and household manufactures of Kingston, Rockingham county.
- " 25. " Workshop and household manufactures in Poplin, Rockingham county.
- " 26. " " " Loudoun, do  
 " 27. " " " Londonderry, do  
 " 28. " " " Northwood, do  
 " 29. " " " Salem, do  
 " 30. " " " Epping, do  
 " 31. " " " Raymond, do  
 " 32. " " " Windham, do  
 " 33. " " " Deerfield, do  
 " 34. " " " Candia, do  
 " 35. " " " Brentwood, do  
 " 36. " " " East Kingston, do  
 " 37. " " " Southampton, do  
 " 38. " " " Plainton, do  
 " 39. " " " Atkinson, do  
 " 40. " " " Kensington, do
- " 41. Letter from James F. Curtis, agent of Cochico Manufacturing Company, to Daniel P. Drown, in answer to questions concerning the value of property owned by said company.
- " 42. Statement of Cochico Manufacturing Company, Dover, Strafford county, accompanying letter of J. F. Curtis, No. 41.
- " 43. Letter from Lloyd W. Wells to Daniel P. Drown, in answer to questions proposed respecting Great Falls Manufacturing Company, Strafford county.
- " 44. Letter from Lloyd W. Wells to Thomas E. Sawyer, enclosing No. 45.
- " 45. Answers of the Great Falls Manufacturing Company to questions proposed in the circular of Secretary of Treasury.
- " 46. Statement of Great Falls Manufacturing Company, Strafford county.

- Dec. 4, No. 47.** Statement of Guilford Manufacturing Company, Guilford, Strafford county.
- " 48. " Manufactures of Wakefield, Milton, Wolfborough, Ossipee, Brookfield, Strafford county.
- " 49. " Cotton manufactory, at Dover, Strafford county.
- " 50. " Manufactures of Sanbornton, do
- " 51. " Salmon Falls Manufacturing Company, at Somersworth, Strafford county.
- " 52. " Winnipisseogee Lake Manufacturing Company, Meredith, Strafford county.
- " 53. " Avery Manufacturing Company, Meredith, Strafford county.
- " 54. " Avery and Melcher cotton-yarn factory, Guilford, Strafford co.
- " 55. " Guilford iron foundry, " "
- " 56. " Manufactures of Dover, " "
- " 57. " Caldwell's distillery, Dover, " "
- " 58. " Manufactures of Rochester and other towns, " "
- " 59. " Workshop and household manufactures in Conway, Eaton, North Effingham, Tamworth, and New Hampton, Strafford county.
- " 60. " Workshop and household manufactures in Moultonborough, Tuftonborough, and Alton, Strafford county.
- " 61. " Workshop and household manufactures in Guilford and Meredith, Strafford county.
- " 62. " Workshop and household manufactures in Sandwich, Strafford county.
- " 63. " Workshop and household manufactures in Gilmanton, Strafford county.
- " 64. " Cotton manufactory in Lebanon, Grafton county.
- " 65. " Woollen " Bath, do
- " 66. " New Hampshire Iron Factory Company, in Franconia, Grafton county.
- " 67. " Franconia upper iron works, Franconia, Grafton county.
- " 68. Letter from John H. White to D. P. Drown, transmitting returns from Lancaster, Northumberland, and Jefferson, Coos county.
- " 69. Statement of workshop and household manufactures, Lancaster, Coos county.
- " 70. Further statement of manufactures in Lancaster, do
- " 71. " " Workshop and household manufactures in Northumberland and Jefferson, Coos county.
- " 72. Statement of workshop and household manufactures in Colebrook, Coos co.
- " 73. " " " " Stewardstown, do
- " 74. " " " " Jackson, do
- " 75. Statement of the manufactures of Bartlett, Coos county.
- " 76. " Household manufactures of Stratford and Columbia, Coos co.
- " 77. " Manufactures of Strafford, Coos county.
- " 78. Letter from J. D. Philbrick to Daniel P. Drown, enclosing returns No. 79.
- " 79. Statement of manufactures in Piercy, Milan, Berlin, Shelburne, and Randolph, Coos county.
- " 80. Statement of household manufactures, Whitefield, Coos county.
- " 81. " " " " " "
- Dec. 5, No. 1.** Report of Henry Stark to Secretary of Treasury, with the subsequent statements, together with a synopsis of a document marked A.
- " 2. A document marked A., accompanying the report of Henry Stark, with returns from the counties of Merrimack, Sullivan, Cheshire, and Hillsborough, on manufactures.
- " 3. Statement of manufactures in the towns of Allenston, Pembroke, and Hookset, county of Merrimack.
- " 4. Statement of manufactures in the towns of Andover and Wilmot, county of Merrimack.
- " 5. Statement of manufactures in the town of Bow, county of Merrimack.
- " 6. Do do do Boscawen, county of Merrimack.
- " 7. Do do do Concord, do
- " 8. Do do do Chichester do
- " 9. Do do do Canterbury do
- " 10. Do do do Dunbarton do
- " 11. Do do do Epsom, do
- " 12. Statement of manufactures of iron in Epsom, Merrimack county.
- " 13. Do do do Hopkinton, do

|                 |                                                                                                                                                                                             |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Doc. 5, No. 14. | Statement of cloth dressing, Henniker, Merrimack county.                                                                                                                                    |
| " 15.           | Do manufactures, London, do                                                                                                                                                                 |
| " 16.           | Do do New London, Bradford, and Fisherfield, Merrimack county.                                                                                                                              |
| " 17.           | Do do Northfield and Franklin, Merrimack county.                                                                                                                                            |
| " 18.           | Do do Pittsfield, do                                                                                                                                                                        |
| " 19.           | Do do Salisbury, do                                                                                                                                                                         |
| " 20.           | Do do Sutton, do                                                                                                                                                                            |
| " 21.           | Do do Canterbury Shaker Village, do                                                                                                                                                         |
| " 22.           | Do do Warner, do                                                                                                                                                                            |
| " 23.           | Do do Heworth, Sullivan county.                                                                                                                                                             |
| " 24.           | Do do Corydon, do                                                                                                                                                                           |
| " 25.           | Do do Cornish, do                                                                                                                                                                           |
| " 26.           | Do do Claremont, do                                                                                                                                                                         |
| " 27.           | Do do Charleston, do                                                                                                                                                                        |
| " 28.           | Do do Goshen, do                                                                                                                                                                            |
| " 29.           | Statement from Granthan, do                                                                                                                                                                 |
| " 30.           | Do of sheep, Langdon, do                                                                                                                                                                    |
| " 31.           | Do of manufactures in Limpster together with a letter from D. W. Smith, showing amount of wool, Sullivan co.                                                                                |
| " 32.           | Do do Newport, Sullivan county.                                                                                                                                                             |
| " 33.           | Do do Plainfield, do                                                                                                                                                                        |
| " 34.           | Do of No. sheep in Springfield, do                                                                                                                                                          |
| " 35.           | Do of manufactures in Unity, do                                                                                                                                                             |
| " 36.           | Do do Washington, do                                                                                                                                                                        |
| " 37.           | Do of household manufactures in Wendall, Sullivan county.                                                                                                                                   |
| " 38.           | Do of manufactures in Alstead, Cheshire county.                                                                                                                                             |
| " 39.           | Do do Chesterfield, do                                                                                                                                                                      |
| " 40.           | Do do Dublin, do                                                                                                                                                                            |
| " 41.           | Do do Fitzwilliam, do                                                                                                                                                                       |
| " 42.           | Do do Gilsum, do                                                                                                                                                                            |
| " 43.           | Do do Hinsdale, do                                                                                                                                                                          |
| " 44.           | Do do Keene, do                                                                                                                                                                             |
| " 45.           | Do do Jaffrey, do                                                                                                                                                                           |
| " 46.           | Do do Marlow, do                                                                                                                                                                            |
| " 47.           | Do do Marlborough, do                                                                                                                                                                       |
| " 48.           | Do do Nelson, do                                                                                                                                                                            |
| " 49.           | Do do Sullivan, do                                                                                                                                                                          |
| " 50.           | Do do Stoddard, do                                                                                                                                                                          |
| " 51.           | Do do Swansey, do                                                                                                                                                                           |
| " 52.           | Do do Surry, do                                                                                                                                                                             |
| " 53.           | Do do Troy, do                                                                                                                                                                              |
| " 54.           | Do do Roxbury, do                                                                                                                                                                           |
| " 55.           | Do do Richmond, do                                                                                                                                                                          |
| " 56.           | Do do Ringe, do                                                                                                                                                                             |
| " 57.           | Do do Walpole, do                                                                                                                                                                           |
| " 58.           | Do do Winchester, do                                                                                                                                                                        |
| " 59.           | Do do Westmoreland, do                                                                                                                                                                      |
| " 60.           | Letter from Oliver Deane to Henry Stark, in answer to inquiries proposed by Secretary of Treasury, with reference to the Amoskeig Manufacturing Company, Hillsborough, Hillsborough county. |
| " 61.           | Statement of the manufactures in Amherst, Hillsborough county.                                                                                                                              |
| " 62.           | Do do Brooklyn, do                                                                                                                                                                          |
| " 63.           | Do do Antrim, do                                                                                                                                                                            |
| " 64.           | Do do Bedford, do                                                                                                                                                                           |
| " 65.           | Statement of manufactures in Dunstable, with documents A No. 66, and B No. 67, appended.                                                                                                    |
| " 66.           | Document A. Statement of manufactures in Dunstable, Hillsborough co.                                                                                                                        |
| " 67.           | Document B. With further statements of manufactures in Dunstable, Hillsborough county.                                                                                                      |
| " 68.           | Letter from Ira Gray to Henry Stark, answering queries respecting the Nashua cotton mill, in Dunstable, Hillsborough county.                                                                |
| " 69.           | Letter from Benjamin F. French to Henry Stark, respecting the Jackson Company in Dunstable, Hillsborough county.                                                                            |
| " 70.           | Statement of manufactures in Deering, Hillsborough county.                                                                                                                                  |
| " 71.           | Do do Francestown, do                                                                                                                                                                       |

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|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Doc. 5, No. 73. | Statement of manufactures in Greenfield, Hillsborough county.                                                                          |  |  |
| " 74.           | Do do Goffstown, do                                                                                                                    |  |  |
| " 75.           | Do cotton manufactory of Hillsborough, Hillsborough county.                                                                            |  |  |
| " 76.           | Do do do do                                                                                                                            |  |  |
| " 77.           | Do iron manufactory of Hudson, do                                                                                                      |  |  |
| " 78.           | Do manufactures in Hollis, do                                                                                                          |  |  |
| " 79.           | Do do Hillsborough, do                                                                                                                 |  |  |
| " 80.           | Do cotton, iron, in Hancock, do                                                                                                        |  |  |
| " 81.           | Do manufactures, and sheep, in Litchfield, do                                                                                          |  |  |
| " 82.           | Do do Lyndeborough, do                                                                                                                 |  |  |
| " 83.           | Do do Mount Vernon, do                                                                                                                 |  |  |
| " 84.           | Do Milford cotton mill, do                                                                                                             |  |  |
| " 85.           | Do manufactures in Milford, do                                                                                                         |  |  |
| " 86.           | Do do Mason, do                                                                                                                        |  |  |
| " 87.           | Letter from Frederick G. Stark to Henry Stark, with a statement of manufactures in Manchester, Hillsborough county.                    |  |  |
| " 88.           | Statement of manufactures in Merrimack, Hillsborough county.                                                                           |  |  |
| " 89.           | Do do New Boston, do                                                                                                                   |  |  |
| " 90.           | Do New Ipswich factories, do                                                                                                           |  |  |
| " 91.           | Do manufactures, New Ipswich, do                                                                                                       |  |  |
| " 92.           | Letter from Jesse Gibson to Henry Stark, transmitting information in regard to manufactures in Pelham, Hillsborough county.            |  |  |
| " 93.           | Letter from J. H. Steele to Henry Stark, giving information concerning Petersborough cotton mills, Petersborough, Hillsborough county. |  |  |
| " 94.           | Statement concerning manufactures in Petersborough, Hillsborough county.                                                               |  |  |
| " 95.           | Do do do Sharon, do                                                                                                                    |  |  |
| " 96.           | Do do do Temple and Sharon, do                                                                                                         |  |  |
| " 97.           | Statement from Society Land and Windsor, do                                                                                            |  |  |
| " 98.           | Do manufactures in Wilton, do                                                                                                          |  |  |
| " 99.           | Do do Weare, do                                                                                                                        |  |  |

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|                |                                                                                                                                                                      |  |  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Doc. 6, No. 1. | Report from B. F. Bailey to Secretary of Treasury, respecting the manufactures of Vermont, together with two letters from A. Binney and Samuel C. Crafts to himself. |  |  |
| " 2.           | Letter from Samuel C. Crafts to B. F. Bailey, respecting the manufactures of Craftsbury, Orleans county.                                                             |  |  |
| " 3.           | Letter from A. Binney to B. F. Bailey, respecting a copperas factory in Strafford, Orange county.                                                                    |  |  |
| " 4.           | Report from George Paine, assistant, respecting the manufactures in Orange, Caledonia, Washington, and Essex counties.                                               |  |  |
| " 5.           | Report from W. H. Penniman, respecting the manufactures in Franklin and Chittenden counties.                                                                         |  |  |
| " 6.           | Statement respecting the paper mill and linseed oil factory of A. and D. Day, Burlington, Chittenden county.                                                         |  |  |
| " 7.           | Letter from S. H. Kellogg to Hon. Wm. Slade, being a statement of manufactures in Pittsford, Rutland county.                                                         |  |  |
| Doc. 7, No. 1. | Letter from Wm. C. Bradley to Secretary of Treasury, enclosing answers of various manufacturers to queries proposed by him.                                          |  |  |
| " 2.           | Answers of certain manufacturers in Vermont to questions proposed by Secretary of Treasury, accompanying the letter of Wm. C. Bradley.                               |  |  |
| " 3.           | Answers of Captain Samuel Cutting, owner of paper mill, to queries proposed by Secretary of Treasury, respecting a paper mill in Guilford, Windham co.               |  |  |
| " 4.           | Answers of Captain Jonah Cutting to questions proposed by Secretary of Treasury, respecting an oil mill in Guilford, Windham county.                                 |  |  |

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|                |                                                                                                                       |  |  |
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| Doc. 8, No. 1. | Report from Samuel Slater to Secretary of Treasury, containing a general summary of the manufactures of Rhode Island. |  |  |
| " 2.           | Statement respecting the Crompton mills, Warwick, Kent county.                                                        |  |  |
| " 3.           | Do do Natic cotton mills, do do                                                                                       |  |  |
| " 4.           | Do do Whitman's factory, do do                                                                                        |  |  |
| " 5.           | Do do Arkwright cotton mills, Warwick, Kent county.                                                                   |  |  |

- Doc. 8, No. 6. Statement respecting the Greene Manufacturing Company, Warwick, Kent co.
- |   |     |              |                                                                  |                                                                                 |       |
|---|-----|--------------|------------------------------------------------------------------|---------------------------------------------------------------------------------|-------|
| " | 7.  | Do           | do                                                               | cotton mills, Natic village,                                                    | do    |
| " | 8.  | Do           | do                                                               | Rhodes and Son's cotton factory,                                                | do do |
| " | 9.  | Do           | do                                                               | Clarke's cotton factory,                                                        | do do |
| " | 10. | Do           | do                                                               | Lippett Manufacturing Company,                                                  | do do |
| " | 11. | Do           | do                                                               | Wood and Johnson's cotton factory,                                              | do do |
| " | 12. | Do           | do                                                               | Carrington mill, Cumberland, Providence county.                                 |       |
| " | 13. | Do           | do                                                               | White Stone factory,                                                            | do do |
| " | 14. | Do           | do                                                               | Legrous and Harris's satinete factory, Cumberland, Providence county.           |       |
| " | 15. | Do           | do                                                               | Bellefonte mills, Cranston, Providence county.                                  |       |
| " | 16. | Do           | do                                                               | Union mills, Johnston,                                                          | do do |
| " | 17. | Do           | do                                                               | Mill Merino,                                                                    | do do |
| " | 18. | Do           | do                                                               | Steam Cotton Manufacturing Company, Providence, Providence county.              |       |
| " | 19. | Do           | do                                                               | Allen's woollen mill, Providence, Providence county.                            |       |
| " | 20. | Do           | do                                                               | Randill's mills, North Providence                                               | do    |
| " | 21. | Do           | do                                                               | United Manufacturing Company, Providence, Providence county.                    |       |
| " | 22. | Do           | do                                                               | cotton mill, village of Pawtucket, North Providence, Providence county.         |       |
| " | 23. | Do           | do                                                               | Georgia Manufacturing Company, Smithfield, North Providence, Providence county. |       |
| " | 24. | Do           | do                                                               | Allen's cotton mills, Smithfield, North Providence, Providence county.          |       |
| " | 25. | Statement of | Jenk's cotton mill, Smithfield, Providence county.               |                                                                                 |       |
| " | 26. | Do           | Central falls mill,                                              | do do                                                                           |       |
| " | 27. | Do           | Scott & Co., cotton mill, Smithfield, Providence county.         |                                                                                 |       |
| " | 28. | Do           | Lippett Manufacturing Company, Kent township, Providence county. |                                                                                 |       |
| " | 29. | Do           | Fiskville mills, Smithfield, Providence county.                  |                                                                                 |       |
| " | 30. | Do           | Richmond Manufacturing Company, Smithfield, Providence co.       |                                                                                 |       |
| " | 31. | Do           | Hope factory,                                                    | do do                                                                           |       |
| " | 32. | Do           | cotton mill,                                                     | do do                                                                           |       |
| " | 33. | Do           | Wakefield mills, South Kingston, Washington county.              |                                                                                 |       |
| " | 34. | Do           | Burtonville mills, Richmond                                      | do                                                                              |       |
| " | 35. | Do           | Belleville mills, North Kingston,                                | do                                                                              |       |
| " | 36. | Do           | cloth factory, Rocky Brook,                                      | do                                                                              |       |
| " | 37. | Do           | Enterprise factory, Portsmouth, Newport,                         | do                                                                              |       |
| " | 38. | Do           | Newport steam factory,                                           | do do                                                                           |       |
| " | 39. | Do           | 2 cotton mills, similar name not put down.                       |                                                                                 |       |
| " | 40. | Do           | Hope mill, Scituate.                                             |                                                                                 |       |
| " | 41. | Do           | Schedule of the manufacture of Rhode Island.                     |                                                                                 |       |
- Doc. 19. Letter on the manufacture of cotton in Providence; additional paper inserted at the end of second volume.

## CONNECTICUT—VOL. 1.

- Doc. 9, No. 1. Letter from H. L. Ellsworth to Secretary of Treasury, transmitting statistical information with respect to manufactures in the State of Connecticut.
- " 2. Letter from H. L. Ellsworth to Secretary of Treasury, with letters as follows:
- " 3. Letter from Mr. Andrews, agent, answering queries proposed by Secretary of Treasury.
- " 4. Letter from Mr. Stubbins on expediency of adopting the general principles of the Secretary's report.
- " 5. Letter from Mr. De Forrest respecting cotton statistics.  
Letter from William Sherwood to H. L. Ellsworth, expressing opinion respecting Secretary's report.
- " 6. Letter from H. L. Ellsworth to Secretary of Treasury, enclosing vouchers to the report of manufacturing statistics of Connecticut.
- " 7. Statement of the manufactures in New Britain Society, Berlin, Hartford county.
- " 8. Do Eagle Manufacturing Company, do
- " 9. Do city of Hartford, do
- " 10. Do Hudson's paper mills, Hartford, do
- " 11. Do Hartford Manufacturing, do

|                 |                                                            |                  |
|-----------------|------------------------------------------------------------|------------------|
| Doc. 9, No. 12. | Statement of Marlborough mills,                            | Hartford county. |
| " 13.           | Do Manchester mills                                        | do               |
| " 14.           | Do 29 manufacturing establishments, New Britain,           | do               |
| " 15.           | Do further manufactures, New Britain,                      | do               |
| " 16.           | Do further manufactures, New Britain Society, Berlin,      | do               |
| " 17.           | Do brass foundries, New Britain Society, Berlin,           | do               |
| " 18.           | Do manufactures in Tariffville,                            | do               |
| " 19.           | Do carpet manufactory, Sunbury,                            | do               |
| " 20.           | Do iron castings manufactory, Windsor,                     | do               |
| " 21.           | Do Ousatonic Manufacturing Company, Litchfield county.     |                  |
| " 22.           | Do cotton factory in Goshen,                               | do               |
| " 23.           | Do woollen do do                                           | do               |
| " 24.           | Do Hitchcock's chair factory, Baskhausted,                 | do               |
| " 25.           | Do Kent Furnace Company, Kent,                             | do               |
| " 26.           | Do Litchfield,                                             | do               |
| " 27.           | Do iron furnace, Litchfield,                               | do               |
| " 28.           | Do manufactures in Torrington,                             | do               |
| " 29.           | Do do Middletown, Middlesex county.                        |                  |
| " 30.           | Do do Meriden, New Haven county.                           |                  |
| " 31.           | Do do New Haven,                                           | do               |
| " 32.           | Do do Waterbury,                                           | do               |
| " 33.           | Do 6 cotton factories in Griswold, New London county.      |                  |
| " 34.           | Do woollen, leather, and silk, in Lisbon,                  | do               |
| " 35.           | Do hardware manufactory, New London,                       | do               |
| " 36.           | Do cotton, &c. in Norwich,                                 | do               |
| " 37.           | Do cotton, paper, &c., in Hebron, Tolland county.          |                  |
| " 38.           | Do 2 cotton mills, in Tolland county.                      |                  |
| " 39.           | Do satinnet manufactory in Vernon, Tolland county.         |                  |
| " 40.           | Do cotton manufactory in Hampton, Windham county.          |                  |
| " 41.           | Do Pomfret Manufacturing Company, Pomfret, Windham county. |                  |
| " 42.           | Do shoes manufactured in Woodstock,                        | do               |
| " 43.           | Do manufactures in Bridgeport, Fairfield county.           |                  |
| " 44.           | Do do Danbury,                                             | do               |
| " 45.           | Do do hats, shoes, and combs, in Ridgefield, Fairfield co. |                  |

## NEW YORK—VOL. II.

Doc. 10, No. 1. Report of Alvin Bronson to Secretary of Treasury, transmitting information concerning the cotton, woollen, and iron, and salt manufactories, in the State of New York, together with answers from gentlemen to questions Nos. 35, 36, and 38, in Secretary's circular.

## [Cotton.]

|       |                                                                                                 |
|-------|-------------------------------------------------------------------------------------------------|
| " 2.  | Statement respecting the cotton manufactory of Benjamin Johnson, Poughkeepsie, Dutchess county. |
| " 3.  | Statement respecting the farmers' cotton manufactory, Schaghticoke, Rensselaer county.          |
| " 4.  | Statement respecting the Phoenix cotton manufactory, Middlefield, Otsego co.                    |
| " 5.  | Do Hope do Otsego, do                                                                           |
| " 6.  | Do Oaksville do do                                                                              |
| " 7.  | Do Union do Hartwick, do                                                                        |
| " 8.  | Do do do Butternuts, do                                                                         |
| " 9.  | Do E. Fairman & Co.'s cotton manufactory, Brownville, Jefferson county.                         |
| " 10. | Do L. Beebe & Co.'s cotton manufactory, Watertown, Jefferson county.                            |
| " 11. | Do New Berlin cotton manufactory, New Berlin, Chenango county.                                  |
| " 12. | Do Reed and Walston's cotton manufactory, Livingston, Columbia county.                          |
| " 13. | Do J. Wild's cotton manufactory, Hudson, Columbia county.                                       |
| " 14. | Do Columbia Manufacturing Company of cotton, Stuyvesant, Columbia county.                       |
| " 15. | Do Hudson calico print works, Hudson, Columbia co.                                              |

- Doc. 10, No. 16. Statement respecting the cotton manufactory, Sangerfield, Oneida county.  
 " 17. Do Oneida Manufacturing Company of cotton, Whites-  
 town, Oneida county.  
 " 18. Do Utica Cotton Manufacturing Company, New Hart-  
 ford, Oneida county.  
 " 19. Do cotton factory of New Hartford Manufacturing Com-  
 pany, New Hartford, Oneida county.  
 " 20. Abstract of the cotton factories in New York.

## [Woollen.]

- " 21. Statement of Glenham woollen manufactory, Fishkill, Dutchess county.  
 " 22. Do Bower and Kirk's woollen factory, Poughkeepsie, do  
 " 23. Do J. and J. Wadsworth's do do do  
 " 24. Do Tho's Williams & Sons do do do  
 " 25. Do domestic cloths manufactured in State of New York, in 1824.  
 " 26. Do flannel manufactory, Hudson, Columbia county.  
 " 27. Do John B. Yates's woollen manufactory, Sullivan, Madison co.  
 " 28. Do Oriskany manufactory of cloths and cassimeres, Whitestown,  
 Oneida county.  
 " 29. Do Drake and Stacy's woollen factory, Brownville, Jefferson county.  
 " 30. Do Kimball's woollen factory, Watertown, do  
 " 31. Do manufactory of Indian blankets in Buffalo, Erie county.  
 " 32. Do do woollen, Sidney, Delaware county.  
 " 33. Abstract of certain woollen factories in New York.  
 " 35. Letter from Newton Dexter to John A. Dix, enclosing answers to 7 queries  
 proposed to him.  
 " 36. Questions proposed, answered by N. Dexter, agent Oriskany Man'g Com'y.  
 [Iron.]  
 " 37. Statement of the iron works of the Peru Company, Peru, Clinton county.  
 " 38. Letter from Ezra Williams to John A. Dix, respecting the iron works of the  
 Peru Company, in Peru, Clinton county, with an enclosed schedule.  
 " 39. Letter from Ezra Williams to John A. Dix, answering queries respecting iron  
 manufactures.  
 " 40. Statement of joint stock manufactory of rolled iron and cut nails, in Peru.  
 " 41. Do iron works at Carthage, in Wilna, Jefferson county.  
 " 42. Do George Goulding's iron factory, Watertown, Jefferson county.  
 " 43. Do Lord and Skinner's do Brownville, do  
 " 44. Do manufactory of wrought and cast iron in Malon, Franklin co.  
 " 45. Do do iron and cloth in Sackett's harbor, Jefferson co.  
 " 46. Do Hendrick Seymour & Co., manufactory of cast iron in Wolcott,  
 Wayne county.  
 " 47. Do Tucker and Gilbert's establishment for manufacturing iron, On-  
 tario, Wayne county.  
 " 48. Abstract of the iron manufactures in the State of New York.  
 " 49. Statistics of the valley of the Au Sable river, Essex and Clinton counties.  
 " 50. Onondaga salt works in Salina, Onondaga county.  
 " 51. Statistics along and near the Esopus creek, Ulster county.  
 " 52. Letter from B. B. Howell to John A. Dix, respecting the prices of iron.  
 " 53. Answers of F. Thompson to queries proposed to him, concerning frauds, &c.  
 " 54. Letter from Jacob Walden to John A. Dix, expressing an opinion in a change  
 in the existing mode of levying and collecting duties on woollens, &c.  
 " 55. Letter from the Oneida Manufacturing Society, answering a query concerning  
 board of the manufacturing laborers.  
 " 56. Letter from A. Bronson to Secretary of Treasury, transmitting answers by  
 several gentlemen of New York, to queries proposed by him.  
 " 57. Questions and answers on minimums, frauds, &c., on imported woollens.

## NEW JERSEY—VOL. II.

- Doc. 11, No. 1. Report of Charles Kinsey to Secretary of Treasury, respecting the cotton  
 and woollen manufactures of New Jersey.

## [Cotton.]

- " 2. Statement of Prall and Brother's cotton mill, in Bergen county.

- Doc. 11, No. 3. Statement of Munn & Whitehead's cotton mill, Godwinville, Bergen county.
- " 4. Do James Ramise's calico printing, do
- " 5. Do John Travers' manufacture of canvass, in Paterson, Essex co.
- " 6. Do John W. Berry's cotton establishment, do
- " 7. Do Thomas Walker's printing and bleaching establishment, Acquacknonck, Essex county.
- " 8. Do J. Trusler's calico printing, Rahway, Essex county.
- " 9. Do William H. Morris's cotton factory, Hunterdon county.
- " 10. Do Collet and Smith's do Paterson, Essex county.
- " 11. Do Daniel Holman's do do do
- " 12. Do Ridgeway and Dickey's do do do
- " 13. Do Warren Haight's do do do
- " 14. Do Benson and Godwin's do do do
- " 15. Do Paul and Begg's do do do
- " 16. Do Rogers, Kechum, & Co.'s do do do
- " 17. Do Plunkett and Thompson's do do do
- " 18. Do Godwin and Clark's do do do
- " 19. Do Clark and Robinson's do do do
- " 20. Do Caleb M. Godwin's do do do
- " 21. Do John Colt's do do do
- " 22. Do James Hoy's do Trenton, Hunterdon co.
- " 23. Schedule of cotton manufactures in State of New Jersey.

[Woollen.]

- " 24. Statement of Wm. Bowne, respecting woollen factory in Rahway, Essex co.
- " 25. Do Robert Thompson's carpet manufactory in Bergen county.
- " 26. Do Barrow & Co.'s satinets do Paterson, Essex co.
- " 27. Do John Morron's woollen do do do
- " 28. Letter from J. R. Clawson to Charles Kinsey, enclosing statements of 4 woollen factories in Salem county, as follows:
- " 29. Statement of Pilesgrove woollen factory, in Pilesgrove, Salem county.
- " 30. Do Richmond do do do
- " 31. Do Nitrous factory in Pittsgrove, do do
- " 32. Do Woodstone do do do
- " 33. Schedule of woollen manufactures in State of New Jersey.
- " 34. Charles Kinsey to Secretary of Treasury, respecting iron manufactures of New Jersey.
- " 35. Statement of Joseph Jackson & Sons, respecting iron made and bought at their works in Rockaway, Morris county, together with an enclosed statement of value of property.
- " 36. Statement of Wm. Jackson's iron factory, Rockaway, Morris county.
- " 37. Do Green & Wetmore's iron factory, Bronton, do
- " 38. Do McFarlane & Ayres do Dover, do
- " 39. Schedule of iron manufactures in State of New Jersey.
- " 40. Statement of Benjamin Bevis, concerning the iron manufactures in West Jersey, enclosing a gross statement of the iron works in West Jersey, including Monmouth county.

Doc. 12, No. 1. Further report of Charles Kinsey to Secretary of Treasury, containing aggregate statement of iron, woollen, and cotton manufactories, State of New Jersey.

Doc. 20. Review of the tariff policy, by Andrew Gray, of Newark; additional paper inserted at the end of the second volume.

PENNSYLVANIA—VOL. II.

- Doc. 13, No. 1. Report of M. Carey and C. C. Biddle, commissioners to collect information concerning the manufactures in Pennsylvania, to the Secretary of Treasury, enclosing a copy of his letters to them, together with the report of their agent, Andrew M. Prevost, concerning manufactures in eastern district of the State.
- " 2. Report of Andrew M. Prevost to commissioners of Pennsylvania, with the following enclosures, viz.
- " 3. Abstract of the iron works of Berks county, marked A.
- " 4. Do manufactories in northeastern part of Philadelphia county, marked B.



- Doc. 13, No. 5. Abstract of the manufactories in Delaware, Philadelphia county, marked C.
- " 6. Do iron works, Schuylkill, do do D.
- " 7. Do do Lancaster, do do E.
- " 8. Do do York, do do F.
- " 9. Condensed statement of the manufacturer's answers to questions proposed in Secretary's letter, from 1 to 40, marked 61.
- " 10. Do do do do marked G 1, G 2, A file containing the original of those answers, marked H.
- " 11. 1. A letter of Wm. B. Whitaker, containing answers.
- " 12. 2. Do J. Horrocks, containing answers concerning the Frankford cotton dying establishment, Philadelphia county.
- " 13. 3. Do John P. Crozer, containing answers concerning a cotton spinning mill, in Ashen, Delaware county.
- " 14. 4. (Enclosure accompanying document marked H.) Letter from James Ronaldson, concerning cotton spinning mill in Delaware county.
- " 15. 5. Enclosure accompanying letter from Brower, Templin, & Co., concerning the Philadelphia braziers' foundry.
- " 16. 6. Enclosure accompanying letter from Craige, Holmes, and Craige, concerning Globe mill establishment, Philadelphia county.
- " 17. 7. Enclosure accompanying letter from Norton and Henry Coates, concerning iron factory, Chester county.
- " 18. 8. Enclosure accompanying letter from John Bancroft, concerning woollen factory, Providence, Delaware county.
- " 19. 9. Enclosure accompanying letter from Henry Gordan & Co., concerning iron factory, Stroudsbrough, Northampton county.
- " 20. 10. Enclosure accompanying letter from Wagner and Brothers, concerning cotton factory, Manayunk, Philadelphia county.
- " 21. 11. Enclosure accompanying letter from Wistar and Fisher, concerning Wakefield mills, Philadelphia county.
- " 22. 12. Enclosure accompanying letter from W. B. Jenks & Co., concerning cotton yarn factory, New Hope, Bucks county.
- " 23. 13. Enclosure accompanying letter from Henry Moore, concerning Old Sable works, Delaware county.
- " 24. 14. Enclosure accompanying letter from Samuel and James Riddle, concerning cotton spinning mill, Chester creek, Delaware county.
- " 25. 15. Enclosure accompanying letter from Wm. Darling, concerning Joanna furnace, Berks county.
- " 26. 16. Enclosure accompanying letter from Cardon and Saudrian, concerning Victoria forge, Dauphin county, marked D D, some of the original documents, from which the information in abstract A is derived.
- " 27. Statement of Massillon furnace and forges.
- " 28. Do Hopewell do
- " 29. Do Sally Ann do
- " 30. Do Dowell do
- " 31. Do Spring forge.
- " 32. Do Upper Mount Pleasant forges.
- " 33. Do do and bloom forges.
- " 34. Do District forge.
- " 35. Do Joanna furnace.
- " 36. Do Dale forge.
- " 37. Do Reading and Windsor furnaces, Speedwell forge.
- " 38. Do Mary Ann furnace.
- Doc. 14, No. 1. Letter from Secretary of Treasury to Speaker of Ho. Reps. U. S., transmitting returns relating to manufactures in western district of Pennsylvania.
- " 2. Report of W. Foster and David Lynch to Secretary of Treasury, respecting manufactures in western district Pennsylvania, transmitting the following returns, to wit:
- [Iron.]
- " 3. Statement of Mahlon Rogers' steam engine manufactory, Pittsburgh, Alleghany county.
- " 4. Do John Hartman's iron foundry, Birmingham, Alleghany county.
- " 5. Do Leonard, Semple, and Leonard's iron works, Pittsburgh, Alleghany county.
- " 6. Do Smith & Co.'s rolling mill, Pittsburgh, Alleghany county.

|                 |                                                                                                |
|-----------------|------------------------------------------------------------------------------------------------|
| Dec. 14, No. 7. | Statement of Kinsland, Lightman, and Cuddy's iron foundry, Pittsburgh, Alleghany county.       |
| " 8.            | Do J. & J. Patterson's lock manufactory, brass and iron foundry, Pittsburgh, Alleghany county. |
| " 9.            | Do Mason, Miltenberger, & Co.'s iron works, Pittsburgh, Alleghany county.                      |
| " 10.           | Do John Arthur's steam engine manufactory, Pittsburgh, Alleghany county.                       |
| " 11.           | Do McClurg, Pratt, and Wade's steam engine manufactory, Pittsburgh, Alleghany county.          |
| " 12.           | Do iron and nails manufactured in Pittsburgh during the years 1829, '30, '31.                  |
| " 13.           | Do Alexander and John McNickle's blast furnace, Armstrong co.                                  |
| " 14.           | Do Alexander McNickle's do do                                                                  |
| " 15.           | Do Townsend & Co.'s wire manufactory, Fallston, Beaver county.                                 |
| " 16.           | Do Maria forges, Bedford county.                                                               |
| " 17.           | Do Hanover iron works, Bedford county.                                                         |
| " 18.           | Do King, Swoops, & Co.'s iron works, Bedford county.                                           |
| " 19.           | Do Capewell iron works, do                                                                     |
| " 20.           | Do Lemnos forge, do                                                                            |
| " 21.           | Do Bedford do do                                                                               |
| " 22.           | Do Jackson and Wolf foundry, Crawford county.                                                  |
| " 23.           | Do Philips' iron works, Philipsburg, Centre county.                                            |
| " 24.           | Do Isaac McKinney's furnace, do                                                                |
| " 25.           | Do Lloyd and McNamara's furnace and forge, Centre county.                                      |
| " 26.           | Do Harris, Thomas, & Co.'s do do                                                               |
| " 27.           | Do Leidy & Co.'s pocket do do                                                                  |
| " 28.           | Do Mann & Co.'s edge tool manufactory, do                                                      |
| " 29.           | Do John Dubberman's cupola furnace, do                                                         |
| " 30.           | Do Allegany forge, do                                                                          |
| " 31.           | Do Irwin and Houston's blast furnace and forge, do                                             |
| " 32.           | Do Benner's iron works, do                                                                     |
| " 33.           | Do Roland, Curtin, and Son's iron works, do                                                    |
| " 34.           | Do Valentine and Thomas's do do                                                                |
| " 35.           | Do Mill Hall do do                                                                             |
| " 36.           | Do Lamar furnace, do                                                                           |
| " 37.           | Do Abraham Griseneer's forge and furnace, Columbia county.                                     |
| " 38.           | Do George Mack's foundry, do                                                                   |
| " 39.           | Do Moyer's forge and furnace, do                                                               |
| " 40.           | Do Glass's foundry, Erie county.                                                               |
| " 41.           | Do Wm. Cock's iron foundry, Fayette county.                                                    |
| " 42.           | Do Fulton air foundry, Connisville, do                                                         |
| " 43.           | Do John Snowden's engine shop and iron foundry, Brownsville, Fayette county.                   |
| " 44.           | Do Providence rolling mill, Fayette county.                                                    |
| " 45.           | Do A. Springer's forge, do                                                                     |
| " 46.           | Do Jacob Murphy's forge, do                                                                    |
| " 47.           | Do Rogers's blast furnace, Connelsville, Fayette county.                                       |
| " 48.           | Do Fairview furnace, do                                                                        |
| " 49.           | Do Fairchance do do                                                                            |
| " 50.           | Do Huston's iron furnace, do                                                                   |
| " 51.           | Do Dunbar furnace, do                                                                          |
| " 52.           | Do Franklin iron works, do                                                                     |
| " 53.           | Do Shoenberger's iron works, Huntingdon county.                                                |
| " 54.           | Do Barre forge, do                                                                             |
| " 55.           | Do Colerain forges, do                                                                         |
| " 56.           | Do Huntingdon furnace, do                                                                      |
| " 57.           | Do Springfield furnace, do                                                                     |
| " 58.           | Do Wigton's forge, do                                                                          |
| " 59.           | Do Spang's furnace and forge, do                                                               |
| " 60.           | Do Rockhill furnace, do                                                                        |
| " 61.           | Do Mary Ann and Antis forges, do                                                               |
| " 62.           | Do Rogers and Schamucker's forge, do                                                           |
| " 63.           | Do Moore's iron manufactory, do                                                                |
| " 64.           | Do Lyon, Foster, & Co.'s iron works, do                                                        |
| " 65.           | Do do do Spruce creek, Huntingdon county.                                                      |

Doc. 14, No. 66. Statement of Lyon, Foster, & Co.'s iron works, Baldeagle, Huntingdon co.

|       |    |                                                            |    |
|-------|----|------------------------------------------------------------|----|
| " 67. | Do | Pennsylvania furnace,                                      | do |
| " 68. | Do | Jones and Ever's air foundry, Blairsville, Indiana county. |    |
| " 69. | Do | McKinney's forge, Lycoming county.                         |    |
| " 70. | Do | Russel and Co.'s iron works, Lycoming county.              |    |
| " 71. | Do | Kirk, Kelton, & Co.'s forge,                               | do |
| " 72. | Do | Hepburn and Langcakis forge,                               | do |
| " 73. | Do | Niscopeck forge, Luzerne county.                           |    |
| " 74. | Do | Laycock's foundry,                                         | do |
| " 75. | Do | Huling's furnace, Mifflin county.                          |    |
| " 76. | Do | W. & G. Norris's blast furnace and forge, Mifflin county.  |    |
| " 77. | Do | Patton's blast furnace,                                    | do |
| " 78. | Do | Cogswell, Weeks, & Co.'s iron foundry,                     | do |
| " 79. | Do | W. & A. Couch's forges,                                    | do |
| " 80. | Do | Wallace's furnace,                                         | do |
| " 81. | Do | Johns and Hoffman's forge, Northumberland county.          |    |
| " 82. | Do | Joseph Rhoads's foundry,                                   | do |
| " 83. | Do | Evans's forge and furnace, Union county.                   |    |
| " 84. | Do | Moderwall's forge,                                         | do |
| " 85. | Do | Teonista Blooming, Venango county.                         |    |

[Iron.]

|       |    |                                                            |    |
|-------|----|------------------------------------------------------------|----|
| " 86. | Do | Hay's forge,                                               | do |
| " 87. | Do | Franklin forge,                                            | do |
| " 88. | Do | Oil Creek furnace,                                         | do |
| " 89. | Do | Clarion furnace,                                           | do |
| " 90. | Do | Venango furnace,                                           | do |
| " 91. | Do | Franklin furnace,                                          | do |
| " 92. | Do | Ben. Kendrick, silver plate manufactory, Washington county |    |
| " 93. | Do | Ross furnace, Westmoreland county.                         |    |

[Woollen.]

|        |    |                                                        |                          |
|--------|----|--------------------------------------------------------|--------------------------|
| " 94.  | Do | Andrew Murphy's woollen manufactory, Alleghany county. |                          |
| " 95.  | Do | Arthur's woollen factory,                              | do                       |
| " 96.  | Do | Townsend's do,                                         | Fallston, Beaver county. |
| " 97.  | Do | Elder's do                                             | do                       |
| " 98.  | Do | Lutz's do                                              | Bedford county.          |
| " 99.  | Do | Keagy's do                                             | do                       |
| " 100. | Do | Kubler's do                                            | Centre county.           |
| " 101. | Do | Williams's do                                          | do                       |
| " 102. | Do | Hanser's do                                            | do                       |
| " 103. | Do | fulling mills in Crawford county.                      |                          |
| " 104. | Do | David Dewey's woollen factory, Crawford county.        |                          |
| " 105. | Do | Burchard's do                                          | do                       |
| " 106. | Do | Millard's do                                           | Columbia county.         |
| " 107. | Do | Eves's do                                              | do                       |
| " 108. | Do | Montgomery's do                                        | do                       |
| " 109. | Do | Hart's do                                              | do                       |
| " 110. | Do | Mrs. M. Montgomery's woollen factory, Columbia county. |                          |
| " 111. | Do | Hill's wool and cotton factory, Erie county.           |                          |
| " 112. | Do | Innis's woollen factory,                               | do                       |
| " 113. | Do | Stevenson's woollen factory, Fayette county.           |                          |
| " 114. | Do | Willings's do                                          | do                       |
| " 115. | Do | Bracken & Rogers's woollen factory, Fayette county.    |                          |
| " 116. | Do | Trevor, Foster, & Co.'s do                             | do                       |
| " 117. | Do | Drake and Co.'s do                                     | Clarksville, Greene co.  |
| " 118. | Do | Gardner's do                                           | Huntingdon county.       |
| " 119. | Do | Cromwell's fulling mill,                               | do                       |
| " 120. | Do | Giboney's do                                           | do                       |
| " 121. | Do | McKeivan's fulling and carding factory,                | do                       |
| " 122. | Do | Martin's do                                            | do                       |
| " 123. | Do | Richard's woollen factory, Indiana county.             |                          |
| " 124. | Do | Matthews's do                                          | do                       |
| " 125. | Do | Schofield's do                                         | Juniatta county.         |

Doc. 14, No. 126. Statement of Wm. Rogers's woollen factory, Lycoming county.

|   |      |    |                                                                                                 |                    |                        |
|---|------|----|-------------------------------------------------------------------------------------------------|--------------------|------------------------|
| " | 127. | Do | Sam'l Rogers's                                                                                  | do                 | do                     |
| " | 128. | Do | McCormick's                                                                                     | do                 | do                     |
| " | 129. | Do | Sweet's                                                                                         | do                 | do                     |
| " | 130. | Do | Blackwell's                                                                                     | do                 | do                     |
| " | 131. | Do | R. & G. Holgate's woollen factory,                                                              | Luzerne county.    |                        |
| " | 132. | Do | Starling & Parker's                                                                             | do                 | do                     |
| " | 133. | Do | Sandford's                                                                                      | do                 | Sandy Lake, Mercer co. |
| " | 134. | Do | Dawson's                                                                                        | do                 | Mahoning, do           |
| " | 135. | Do | Elliott's                                                                                       | do                 | Slippery Rock, do      |
| " | 136. | Do | J. & S. Brown's                                                                                 | do                 | Sandy Lake, do         |
| " | 137. | Do | Leech's                                                                                         | do                 | Salem, do              |
| " | 138. | Do | Mrs. Armsby's                                                                                   | do                 | do                     |
| " | 139. | Do | G. & G. Wilson's                                                                                | do                 | Nerhonock, do          |
| " | 140. | Do | Robinson's                                                                                      | do                 | do                     |
| " | 141. | Do | Martin's                                                                                        | do                 | Slippery Rock, do      |
| " | 142. | Do | R. & J. McFarlane,                                                                              | do                 | Nerhonock, do          |
| " | 143. | Do | Miller's                                                                                        | do                 | Mahoning, do           |
| " | 144. | Do | Sively's fulling mill,                                                                          | Mifflin county.    |                        |
| " | 145. | Do | Gibony's                                                                                        | do                 | do                     |
| " | 146. | Do | Witherous's fulling mill and carding machine, and G. Strode's fulling mill and carding machine, | Mifflin county.    |                        |
| " | 147. | Do | Buckingham's woollen factory,                                                                   | Washington county. |                        |
| " | 148. | Do | Calkin's                                                                                        | do                 | Tioga county.          |
| " | 149. | Do | Arthur's                                                                                        | do                 | Washington county.     |
| " | 150. | Do | Hugh & Hanna's                                                                                  | do                 | do                     |
| " | 151. | Do | Parker & Son's                                                                                  | do                 | do                     |
| " | 152. | Do | Harvey's                                                                                        | do                 | do                     |
| " | 153. | Do | Johnston's summary of the woollen manufactures in Westmoreland county.                          |                    |                        |

[Cotton.]

|   |      |    |                                                                    |                                         |                        |
|---|------|----|--------------------------------------------------------------------|-----------------------------------------|------------------------|
| " | 154. | Do | Statement of Hope cotton factory, Alleghany county.                |                                         |                        |
| " | 155. | Do | Adams, Allen, & Co.'s cotton factory,                              | Alleghany county.                       |                        |
| " | 156. | Do | Pugh, Wilson, & Co.'s                                              | do                                      | do                     |
| " | 157. | Do | Patterson's cotton and woollen factory in Brighton,                | Beaver co.                              |                        |
| " | 158. | Do | Rapp's cotton and woollen factory owned by the Harmony Society,    | Brighton, Beaver county.                |                        |
| " | 159. | Do | Kiechler's cotton factory,                                         | Centre county.                          |                        |
| " | 160. | Do | Stewart's                                                          | do                                      | Fayette county.        |
| " | 161. | Do | Broadmeadow's steel manufactory,                                   | in Alleghany county.                    |                        |
| " | 162. | Do | McDonald's salt manufactory,                                       | in Alleghany county.                    |                        |
| " | 163. | Do | Pittsburgh salt works,                                             | do                                      |                        |
| " | 164. | Do | Caven's salt manufactory,                                          | do                                      |                        |
| " | 165. | Do | Irwin's                                                            | do                                      | do                     |
| " | 166. | Do | Begg's salt works,                                                 | in Armstrong and Westmoreland counties. |                        |
| " | 167. | Do | Kisler & Co.'s salt manufactory,                                   | Armstrong county.                       |                        |
| " | 168. | Do | Brememan's                                                         | do                                      | do                     |
| " | 169. | Do | do                                                                 | do                                      | do                     |
| " | 170. | Do | Weaver's                                                           | do                                      | do                     |
| " | 171. | Do | Bigham's                                                           | do                                      | do                     |
| " | 172. | Do | Thompson's                                                         | do                                      | do                     |
| " | 173. | Do | Adams's                                                            | do                                      | Sharon, Beaver county. |
| " | 174. | Do | D. & J. Wilson's salt manufactory,                                 | Butler county.                          |                        |
| " | 175. | Do | McFarland's                                                        | do                                      | Indiana county.        |
| " | 176. | Do | Barker's                                                           | do                                      | do                     |
| " | 177. | Do | H. & J. Drum's                                                     | do                                      | do                     |
| " | 178. | Do | McKowen & Rogers's salt manufactory,                               | Indiana county.                         |                        |
| " | 179. | Do | Johnson's                                                          | do                                      | do                     |
| " | 180. | Do | Salmon salt works,                                                 | Westmoreland county.                    |                        |
| " | 181. | Do | Sterett, Skelton, and Franklin,                                    | Westmoreland county.                    |                        |
| " | 182. | Do | Hope and Anathias's salt works, reported by Talmadge and Criswell, | Westmoreland county.                    |                        |
| " | 183. | Do | Shaner's salt works, reported by Talmadge and Criswell,            | Westmoreland county.                    |                        |
| " | 184. | Do | Donnelly and Weaver's salt works,                                  | Westmoreland county.                    |                        |

## [Paper.]

|                   |                                                                             |
|-------------------|-----------------------------------------------------------------------------|
| Doc. 14, No. 185. | Statement of Johnson and Stockton's paper manufactory, Fallston, Beaver co. |
| " 186.            | Do Sharpless & Co.'s paper mill, Columbia county.                           |
| " 187.            | Do Magaw's straw paper mill, Meadville, Crawford county.                    |
| " 188.            | Do Pelton's paper manufactory, Erie county.                                 |
| " 189.            | Do Trevor & Co.'s paper manufactory, Fayette county.                        |
| " 190.            | Do Redston's do do do                                                       |
| " 191.            | Do McCahan's do do Huntingdon county; also<br>grist mill and oil mill.      |
| " 192.            | Do Alexander & Co.'s paper mill, Luzerne county.                            |
| " 193.            | Do L. B. & C. P. Mark's paper mill, Westmoreland county.                    |

## [Glass.]

|        |                                                                               |
|--------|-------------------------------------------------------------------------------|
| " 194. | Do Curling & Son's flint glass manufactory, Alleghany county.                 |
| " 195. | Do Bakewell, Page, & Bakewell's flint glass manufactory, Alleghany county.    |
| " 196. | Do Taylor & Co.'s window glass and glass ware manufactory, Fayette county.    |
| " 197. | Do Martin and Baker's window glass manufactory, Percypopolis, Fayette county. |
| " 198. | Do Bridgeport glass works, Fayette county.                                    |
| " 199. | Do Reaslire do do                                                             |
| " 200. | Do Black & Co.'s glass works, Greene county.                                  |

## [Leather.]

|        |                                                                        |
|--------|------------------------------------------------------------------------|
| " 201. | Do Caldwell's leather manufactory, Pittsburgh, Alleghany county.       |
| " 202. | Do Hays's do do do                                                     |
| " 203. | Do Trimble's do do Armstrong county.                                   |
| " 204. | Do J. & W. Reynolds's leather manufactory, Armstrong county.           |
| " 205. | Do J. Wort's do do do                                                  |
| " 206. | Do Potter's manufactory of leather, do                                 |
| " 207. | Do Craig's do do do                                                    |
| " 208. | Do Barton's do do do                                                   |
| " 209. | Do Shields's do do do                                                  |
| " 210. | Do Arnold's do do do                                                   |
| " 211. | Do Scott's do do Beaver county.                                        |
| " 212. | Do Stokes's do do do                                                   |
| " 213. | Do Moorehead's manufactory of leather, Sharon, Beaver county.          |
| " 214. | Do Adams's do do Green county.                                         |
| " 215. | Do McAllister's do do do                                               |
| " 216. | Do Lindale's do do do                                                  |
| " 217. | Do Cottevill's do do do                                                |
| " 218. | Philson's abstract return of articles manufactured in Somerset county. |
| " 219. | Statement of Wolf's tannery, Washington county.                        |
| " 220. | Do Hughes's do do                                                      |
| " 221. | Do Walker's do do                                                      |
| " 222. | Do Sharp's do do                                                       |
| " 223. | Do Bell's do do                                                        |
| " 224. | Do Johnston's summary of tanneries, in Westmoreland county.            |
| " 225. | Do McQuistern & Parker's tanneries, in Butler county.                  |
| " 226. | Do Marshall's tannery do                                               |
| " 227. | Do Geichler & McJunkin's tannery, in do                                |
| " 228. | Do J. & R. Reid's do do                                                |
| " 229. | Do McGee & Arnold's do do                                              |
| " 230. | Do Stratton's tannery, Crawford county.                                |
| " 231. | Do Williamson's tannery, do                                            |
| " 232. | Do Henry's do do                                                       |
| " 233. | Do Clark's do Meadville, Crawford county.                              |
| " 234. | Do Davis's do do do                                                    |
| " 235. | Do Frazier's do do do                                                  |
| " 236. | Do Benet's do do do                                                    |
| " 237. | Do Brown's do do do                                                    |
| " 238. | Do Bradley's do do do                                                  |

Doc. 14, No. 239. Statement of White's tannery, Meadville, Crawford county.

|        |    |                                                            |                      |                 |                        |
|--------|----|------------------------------------------------------------|----------------------|-----------------|------------------------|
| " 240. | Do | Danhanis's                                                 | do                   | do              | do                     |
| " 241. | Do | Sterrett's                                                 | do                   | do              | Erie county.           |
| " 242. | Do | Cochrane's                                                 | do                   | do              | do                     |
| " 243. | Do | Allen & Roosevelt's tannery,                               | Meadville,           | Erie county.    |                        |
| " 244. | Do | Strawn's                                                   | do                   | do              | Fayette county.        |
| " 245. | Do | Downer's                                                   | do                   | do              | do                     |
| " 246. | Do | Stone's                                                    | do                   | do              | do                     |
| " 247. | Do | Binns's                                                    | do                   | do              | do                     |
| " 248. | Do | E. Strawn's                                                | do                   | do              | do                     |
| " 249. | Do | Dale's                                                     | do                   | do              | do                     |
| " 250. | Do | Henry's                                                    | do                   | do              | Jefferson county.      |
| " 251. | Do | Gibbs's                                                    | do                   | do              | do                     |
| " 252. | Do | Barr's                                                     | do                   | do              | do                     |
| " 253. | Do | Leech's                                                    | do                   | do              | Mercer county.         |
| " 254. | Do | Mossman's                                                  | do                   | do              | do                     |
| " 255. | Do | Gibron's                                                   | do                   | Neshanock,      | do                     |
| " 256. | Do | Byer's                                                     | do                   | Sharon,         | do                     |
| " 257. | Do | Galloway's                                                 | do                   | Wilmington,     | do                     |
| " 258. | Do | Cadwallader's                                              | do                   | Mahoning,       | do                     |
| " 259. | Do | Moore's                                                    | do                   | New Bedford,    | do                     |
| " 260. | Do | Johnston's                                                 | do                   | Mahoning,       | do                     |
| " 261. | Do | Dickson's                                                  | do                   | do              | do                     |
| " 262. | Do | Stevenson's                                                | do                   | Slippery Rock,  | do                     |
| " 263. | Do | Smith's                                                    | do                   | do              | do                     |
| " 264. | Do | Pearson's                                                  | do                   | do              | do                     |
| " 265. | Do | C. Dickson's                                               | do                   | Harlemburg,     | do                     |
| " 266. | Do | McEwen's                                                   | do                   | Slippery Rock,  | do                     |
| " 267. | Do | Fall's                                                     | do                   | New Castle,     | do                     |
| " 268. | Do | Carey's                                                    | do                   | Sharon,         | do                     |
| " 269. | Do | Bowman's                                                   | do                   | Venango county. |                        |
| " 270. | Do | Sherry's boot and shoe manufactory,                        | Armstrong county.    |                 |                        |
| " 271. | Do | Veras's                                                    | do                   | do              | Beaver, Beaver county. |
| " 272. | Do | Phillips's                                                 | do                   | do              | do                     |
| " 273. | Do | Miller's                                                   | do                   | do              | do                     |
| " 274. | Do | Williams's                                                 | do                   | do              | Erie county.           |
| " 275. | Do | Woods's                                                    | do                   | do              | Greene county.         |
| " 276. | Do | Sharpnick's                                                | do                   | do              | Jefferson, do          |
| " 277. | Do | Sanders's                                                  | do                   | do              | Washington co.         |
| " 278. | Do | Griffith's                                                 | do                   | do              | do                     |
| " 279. | Do | Alexander's                                                | do                   | do              | do                     |
| " 280. | Do | Johnston's summary of boot and shoe factories in           | Westmoreland county. |                 |                        |
| " 281. | Do | Hanson's saddlery and harness manufactory,                 | Alleghany county.    |                 |                        |
| " 282. | Do | Churkin, Beatty, & Co.'s saddlery and harness manufactory, | Alleghany county.    |                 |                        |
| " 283. | Do | Greer's saddlery and harness manufactory,                  | Alleghany county.    |                 |                        |
| " 284. | Do | Burnside's                                                 | do                   | do              | do                     |
| " 285. | Do | Lloyd & Mathews's saddlery and harness manufactory,        | Alleghany county.    |                 |                        |
| " 286. | Do | Shepherd's saddlery and harness manufactory,               | Alleghany co.        |                 |                        |
| " 287. | Do | Walters's                                                  | do                   | do              | do                     |
| " 288. | Do | W. & R. Mackey's saddlery and harness manufactory,         | Alleghany county.    |                 |                        |
| " 289. | Do | John Little's saddlery and harness manufactory,            | Alleghany co.        |                 |                        |
| " 290. | Do | Ledwick's                                                  | do                   | do              | Butler co.             |
| " 291. | Do | Wasson's                                                   | do                   | do              | Erie county.           |
| " 292. | Do | Lantz's                                                    | do                   | do              | do                     |
| " 293. | Do | Hood & Stoop's                                             | do                   | do              | Greene co.             |
| " 294. | Do | Taylor's                                                   | do                   | do              | do                     |
| " 295. | Do | McNulby's                                                  | do                   | do              | Washington co.         |
| " 296. | Do | Gunning's                                                  | do                   | do              | do                     |
| " 297. | Do | Wilson's                                                   | do                   | do              | Mercer county.         |
| " 298. | Do | Dickson's                                                  | do                   | do              | New Castle,            |
|        |    |                                                            |                      |                 | Washington county.     |
| " 299. | Do | Rogers's saddlery and harness manufactory,                 | New Bedford,         |                 |                        |
|        |    |                                                            | Washington county.   |                 |                        |

Doc. 14, No. 300. Statement of Book & Eaton's saddlery and harness manufactory, New Bedford, Washington county.

" 301. Johnston's summary of saddle manufactures in Westmoreland county.

[Hats.]

- " 302. Statement of McConnell's hat manufactory, in Armstrong county.
- " 303. Do Shively & McCleury's hat manufactory in Beaver county.
- " 304. Do Gilmer's do do Butler county.
- " 305. Do Buhl's do do do
- " 306. Do Lewis's do do Crawford county.
- " 307. Do George's do do Erie county.
- " 308. Do Rockwell's do do do
- " 309. Do Parkinson's do do Greene county.
- " 310. Do Batzill's do do do
- " 311. Do Swan's do do do
- " 312. Do Porter's do do Sharon, Mercer co.
- " 313. Do Bentley & Roberts's do do Harlemsburg, do
- " 314. Do Justice's do do Newcastle, Mercer county.
- " 315. Do McMillen's do do do do
- " 316. Do Cox's do do do do
- " 317. Do Crawford's do do Pulaski, do
- " 318. Do manufactures in Warren county, Sayle's factory of hats.
- " 319. Do Kirk's hat factory, Washington county.
- " 320. Do Hemmon's hat factory, do
- " 321. Do McKeever & Cary's hat factory, Washington county.
- " 322. Johnston's summary of hat manufactures in Westmoreland county.
- " 323. Abstract of all the manufactures of Pennsylvania.
- " 324. Recapitulation of do do

DELAWARE—VOL. II.

Doc. 15, No. 1. Report of Andrew Gray to Secretary of Treasury, with an enclosure containing a list of the manufactures making no returns, together with a condensed view of the information relating to manufactures in Delaware.

" 2. The condensed view of the manufactures in each of the counties of the State of Delaware, appended to letter of A. Gray.

" 3. Statement of E. J. Dupont's powder factory, Newcastle county, referred to in A. Gray's report.

" 4. Do Charles J. Dupont's woollen factory, Newcastle county, referred to in A. Gray's report.

" 5. Do Jacob Pusey's cotton spinning factory, Newcastle county, referred to in A. Gray's report.

" 6. Do J. & A. Patterson's tannery, Smyrna, Kent county, referred to in A. Gray's report.

" 7. Do W. D. Waples's blast furnace, Sussex county, referred to in A. Gray's report.

" 8. Do A. V. Murphy's manufactory of wool and black oak bark, Smyrna, Kent county.

" 9. Do J. G. Oliver's manufactory of black oak bark, Milford, Kent co.

" 10. Do J. M. Darby's leather factory, do do

" 11. Do Thomas Clark's do Frederica, do

" 12. Do Catlin & Green's do Willow Grove, do

" 13. Do Benson & Catt's coach manufactory, Smyrna, do

" 14. Statistical table of Kent county.

" 15. Statement of A. Marvel's leather factory, in Georgetown, Sussex county.

" 16. Do Richards' do do do

" 17. Do Hall & Hazzard's leather factory, Milton, Sussex county.

" 18. Do Wm. Sunnell's do Georgetown, do

" 19. Do A. Nibby's do Milton, do

" 20. Do A. Marshall's do do

" 21. Do S. Prettyman's forge, do

" 22. Do Asa Haines's furnace, do

" 23. Do P. F. Causey's manufactory of oak bark and linseed, Sussex county.

## Dec. 15, No. 24. Statistical table of Sussex county.

|   |     |                                                                              |    |                                              |
|---|-----|------------------------------------------------------------------------------|----|----------------------------------------------|
| " | 25. | Statement of Hilton & Son's factory of cotton and cassimeres, Newcastle co.  |    |                                              |
| " | 26. | Do J. Vandigrift's wool carding                                              | do | do                                           |
| " | 27. | Do H. Clark's woollen factory,                                               |    | do                                           |
| " | 28. | Do Garrett & Pusey's cotton yarn factory,                                    |    | do                                           |
| " | 29. | Do J. B. Hutchinson & Co.'s cotton yarn factory,                             |    | do                                           |
| " | 30. | Tabular statement of the cotton and woollen manufactures in Newcastle co.    |    |                                              |
| " | 31. | Statement of J. Alrich & Son, machinists, Newcastle county.                  |    |                                              |
| " | 32. | Do Clary & Bush,                                                             | do | do                                           |
| " | 33. | Do Wm. Magan's boot, shoe, and trunk manufactory, Newcastle co.              |    |                                              |
| " | 34. | Do J. L. Devou's                                                             | do | do                                           |
| " | 35. | Do J. L. Hedge's rope                                                        | do | do                                           |
| " | 36. | Do C. J. Fell & Brother's chocolate and spice manufactory, Newcastle county. |    |                                              |
| " | 37. | Do Edward Kinnard's coach manufactory, Newcastle county.                     |    |                                              |
| " | 38. | Do John Fall's paper                                                         | do | do                                           |
| " | 39. | Do James Watson's saddle and trunk manufactory, Newcastle co.                |    |                                              |
| " | 40. | Do Wm. Countiss's saddle and harness                                         | do | do                                           |
| " | 41. | Do S. Boddy                                                                  | do | do and trunk manufactory, Newcastle county.  |
| " | 42. | Do J. Perkins's saddle and harness manufactory, Newcastle co.                |    |                                              |
| " | 43. | Tabular statement of the above manufactories in Newcastle county.            |    |                                              |
| " | 44. | Statement of W. R. Seller's battery, Newcastle county.                       |    |                                              |
| " | 45. | Do Peter Springer's                                                          | do | do Wilmington, Newcastle county.             |
| " | 46. | Do L. Rumford's                                                              | do | do                                           |
| " | 47. | Do E. Roberts's soap and candle manufactory,                                 | do |                                              |
| " | 48. | Do Bainton & Bancroft's soap and candle manufactory, Newcastle county.       |    |                                              |
| " | 49. | Do Mahlon Betts's iron foundry, Wilmington, Newcastle county.                |    |                                              |
| " | 50. | Do Bonny & Co.'s                                                             | do | do                                           |
| " | 51. | Do T. C. Alrich's tin and sheet iron manufactory,                            | do |                                              |
| " | 52. | Do N. Beckley's                                                              | do | do                                           |
| " | 53. | Do S. Wood's                                                                 | do | do and copper manufactory, Newcastle county. |
| " | 54. | Do D. C. Wilson's brick manufactory, Newcastle county.                       |    |                                              |
| " | 55. | Do J. Rumford's                                                              | do | do                                           |
| " | 56. | Do A. Jeanie's lime                                                          | do | do                                           |
| " | 57. | Do J. Eastburn's lime                                                        | do | do                                           |
| " | 58. | Tabular statement of various manufacturers and artisans in Newcastle co.     |    |                                              |
| " | 59. | Statement of Thos. Crawford's tannery and bark mill, Newcastle county.       |    |                                              |
| " | 60. | Do T. B. Armstrong & Co.'s tannery and bark mill, Newcastle co.              |    |                                              |
| " | 61. | Do Benj. Webb's bark mill,                                                   |    | do                                           |
| " | 62. | Do Jas. Carson's tannery,                                                    |    | do                                           |
| " | 63. | Do J. Starr's                                                                | do | do Wilmington,                               |
| " | 64. | Do J. Webb's currying,                                                       |    | do                                           |
| " | 65. | Do C. G. Denny's currying,                                                   |    | do                                           |
| " | 66. | Do Z. H. Holtzbuer's tannery,                                                |    | do                                           |
| " | 67. | Tabular statement of tanners, curriers, and bark mills, in Newcastle county. |    |                                              |
| " | 68. | Statement of George Platt's flour and bark mill, Newcastle county.           |    |                                              |
| " | 69. | Do G. B. Meter's flour, bark, plaister, and lumber mills, Newcastle county.  |    |                                              |
| " | 70. | Do S. Eccle's flour mill, Newcastle county.                                  |    |                                              |
| " | 71. | Do J. C. Phillips's flour and saw mill, Newcastle county.                    |    |                                              |
| " | 72. | Do S. Stroud's flour mill,                                                   |    | do                                           |
| " | 73. | Do B. Grubb's                                                                | do | do                                           |
| " | 74. | Do G. Davis's                                                                | do | do                                           |
| " | 75. | Do Wm. Abbott's flour and lumber mill,                                       |    | do                                           |
| " | 76. | Do Naaman's creek mill,                                                      |    | do                                           |
| " | 77. | Do Wm. Cooch's flour and meal mill,                                          |    | do                                           |
| " | 78. | Do J. H. Cannon's                                                            | do | do                                           |
| " | 79. | Do C. Tatman's flour                                                         | do | do                                           |
| " | 80. | Do Jas. Buckingham's flour and meal mill,                                    |    | do                                           |
| " | 81. | Do J. Smith's flour mill,                                                    |    | do                                           |
| " | 82. | Do Jno. Ginn's                                                               | do | do                                           |
| " | 83. | Do Wm. Atkin's                                                               | do | do Ridley creek                              |
| " | 84. | Do Sam'l Richardson's flour mill, Mill creek,                                |    | do                                           |
| " | 85. | Do Wm. Kelly's                                                               | do | do                                           |



- Doc. 15, No. 86. Statement of A. Fountain's grain mill, Newcastle county.
- |   |     |                                                   |                                                     |    |
|---|-----|---------------------------------------------------|-----------------------------------------------------|----|
| " | 87. | Do                                                | S. McDaniel's flour and saw mill, Newcastle county. |    |
| " | 88. | Do                                                | H. Batten's flour and meal mill,                    | do |
| " | 89. | Do                                                | Wm. Batten's do do                                  | do |
| " | 90. | Do                                                | J. & J. Harlan's flour and meal mill,               | do |
| " | 91. | Tabular statement of millers in Newcastle county. |                                                     |    |
- Doc. 16, No. 1. Report of Joshua Gilpin to Secretary of Treasury, respecting the manufactures of Delaware, accompanied by the following, viz.
- |   |    |                                                                                                         |
|---|----|---------------------------------------------------------------------------------------------------------|
| " | 2. | List of the manufactories in Delaware, together with statements from various manufactures in the State. |
| " | 3. | Notes on the history and principles of a tariff and public labor, signed Joshua Gilpin.                 |

## OHIO—VOL. II.

- Doc. 17, No. 1. Report of Morgan Neville to Secretary of Treasury, respecting the manufactures of Ohio, transmitting a country statement and city statement.
- |   |    |                    |
|---|----|--------------------|
| " | 2. | Country statement. |
| " | 3. | City statement.    |

# MANUFACTURES.

## RETURNS FROM THE STATE OF NEW YORK.

### DOCUMENT 10.—No. 1.

*Report of Alvin Bronson to the Secretary of the Treasury, on the Manufactures of New York.*

ALBANY, 17th April, 1832.

SIR: You will receive, herewith, the information required, so far as it has been practicable to obtain it, by your letter of the 7th February last, which did not reach me until the 25th of that month.

In undertaking to accomplish the object in view, it was deemed impossible to procure, directly from all the manufacturing establishments in the State, the necessary information, in order to present it during "the present session" of Congress, as contemplated by the resolutions of the 19th of January. It was, therefore, considered advisable, 1st, to procure from authentic sources such statistical details as had already been collected. 2d, to employ agents in some of the principal manufacturing counties to visit the most extensive establishments, and obtain answers in detail to the queries furnished by the Treasury Department; and, 3d, to correspond with some of the proprietors of large manufactories, and procure, directly from them, the information required.

With regard to branches of manufacture carried on in private workshops, as "hats, shoes, saddlery," &c. it was considered altogether impracticable to procure, within the time limited, any satisfactory intelligence. No effort was made, therefore, to collect any.

The success which has attended the undertaking is equal, perhaps, to any expectation which could reasonably have been entertained.

1. An entire view of the cotton factories is presented. The facts were collected with great care by Mr. Richard P. Hart, of Troy, by correspondence with the proprietors and agents of factories, during the latter part of the year 1831 and the early part of 1832, and are, therefore, of the highest authority. If their statements are inaccurate, accuracy is wholly unattainable, as the sources of information are completely under their control. There is, also, an entire view of the iron establishments, made by Mr. Peter Townsend, of New-York, from a personal examination of all during the year 1831. Nothing more authentic can be obtained. The view of the woollen factories is incomplete. There are more than 200 of those establishments, principally small, in the State; and it would be the work of time to obtain an accurate account of them. The abstracts of the cotton, woollen, and iron establishments, do not furnish replies to all the queries contained in the circular; and it would be impossible to procure replies to all without devoting several months to the object. The salt manufacture of the State is exhibited in all its details, and with a minuteness which leaves nothing to be supplied. The sources of information are of the highest authenticity. From my own residence in the neighborhood of the manufactures, and from my business-connexion with their proprietors, I am enabled to add my testimony to the general accuracy of the information detailed.

2. The agents employed have obtained all the information in their power; and the statements furnished by them, and transmitted herewith, may be considered, together with the returns from proprietors, as presenting a fair average view of the condition and operations of similar establishments. Although the number of factories, of which detailed statements are presented, is small, in comparison with the whole number in the State, they may serve as a standard to determine the profits of the others. The only material difference of profit in different cases must arise from superiority in skill and management.

3. The statements procured by correspondence are few in number, compared with the number of establishments, to the proprietors or agents of which the queries were addressed. Indeed, it is hardly possible to procure the minute information required, excepting by a personal application to those in whose power it is to give it. Should the same information be desired at the next session of Congress, the summer and autumn would afford no more than time sufficient for the purpose.

It will be observed by the blank form which has been circulated, that a few of the questions contained in the circular from the Treasury Department were omitted, one or two divided, with a view to procure distinct answers, and one or two slightly varied in their terms to avoid embarrassment. The questions divided are Nos. 6 and 25; and the questions omitted Nos. 32, 35, 36, 37, and 38. It was considered altogether useless to include the four last in the blank, as intelligent answers were not to be expected from persons living at a distance from the place of importation, and not, therefore, familiar with the matters contained in them; and No. 32 was omitted because it was conceived that an answer might better be given by myself on an examination of the facts collected. Nos. 35, 36, and 38, were addressed to several intelligent gentlemen in the city of New York, and to several manufacturers in the interior, and their answers, as far as they have been received, are enclosed in the packet marked "correspondence, &c." No. 37, if it could be answered at all, would most properly be answered by myself on an examination of the facts collected.

In question 29, the words "with a corresponding reduction on all the imports," were omitted, because it was conceived that an inquiry taking the whole range of the tariff could not be answered by the practical manufacturers, for whom the blank was prepared. It was also conceived, as the question was calculated to embarrass, if not to mislead them, that it would be better to present the inquiry simply in relation to their own manufacture. It was proposed as a separate inquiry to several intelligent gentlemen, although it was, in fact, considered as a question which could best be answered by those to whom the information collected should be presented, by comparing the acknowledged profit with the consumption of foreign products, on which the proposed reduction of duty would take effect, the number of persons employed, and the amount of agricultural productions consumed, on the prices of which that reduction might also be expected to operate. There are, indeed, very great, if not insurmountable difficulties in arriving at a correct decision of this question by any person. Although every species of manufacture would be affected in a different degree, on account of the difference in the amount of duty paid upon the articles which enter respectively into their manufactures, yet there is a class of imports, upon which a reduction of duty would affect equally all manufacturing establishments, in which the number of persons employed are equal. The woollen would appear most likely to be benefitted by a reduction of the duties upon all the imports, than any other branch of manufacture, because wool pays not only a specific duty, relatively high as the prime cost is low, but also a high ad valorem duty; and, also, because oil, and other articles which enter into this manufacture, pay a duty exceeding the proposed limitation. The woollen manufacture would, therefore, seem better able to bear a reduction of duty on the imported rival articles, with such a corresponding reduction on other imports as is proposed, than either iron or cotton, excepting coarse cottons, on which the duty is considered merely nominal. Mr. Dexter, an experienced woollen manufacturer, concurs in the opinion that a reduction might be made on imported woollens, if the duties on wool and other materials used in the manufacture, were also reduced. Yet it is to be considered, on the other hand, that wool is at this moment very low in price, and that the woollen manufacture, as appears by the accompanying returns, is the one on which the least profit is realized. Whether the manufactories of iron could sustain themselves with such a reduction of duties, is matter of extreme doubt. Small establishments at a distance from the coast might do so; but those which, from the limited consumption in their vicinity, are compelled to seek a market at New York, (and this class comprehends the most extensive establishments in the State,) would, most probably, find their manufactures expelled by rival articles imported from abroad. With regard to the reduction of duties upon that class of imports referred to as falling upon all in proportion to numbers, as teas, sugar, coffee, articles of clothing, and every thing coming under the denomination of necessaries or comforts, within the reach of the laboring classes, the iron manufacture would be benefitted in a higher degree than cotton or woollen, because manual labor is employed to a greater extent in the former, and machinery to a greater extent in the two latter. The operation of the proposed reduction would also be to diminish, ultimately, the price of agricultural productions; for, if farmers could obtain their supplies of necessaries at a less price, their profits would be greater, and this increase of profit would induce an additional application of labor and capital to agriculture, until an increased supply of its productions should bring down their market value to their former relative standard. How far a reduction of duty on all imports to 12½ per cent. would affect the cotton, iron, and woollen manufactures, by affording articles of consumption at a lower price, is a question of extreme difficulty. Nothing but experience

can satisfactorily determine it; but, in the present condition of the woollen manufacture, there is reason to believe that it would be the first and the severest sufferer, notwithstanding a reduction of duty on the raw material; and there is equal reason to believe that the cotton manufacture would suffer less than any other.

It will be perceived that there is a great difference of opinion among those from whom answers have been received, with regard to the average profit of capital. All concur in ascribing to other pursuits a better return for capital than is yielded by their own. I am inclined to think it does not differ materially from the market value of money. The legal rate of interest is not an unerring criterion, for it is not unusual in this State that the actual value of money in the market exceeds the amount of interest which the law allows to be received upon loans, and it is, perhaps, quite as frequently below the legal rate. Investments which yield the greatest profits are, as a general rule, extra hazardous; and when the losses which are incurred are taken into the account, the average profits, it is conceived, will not differ materially from the interest of money. It is a common impression that money invested in trade in the country is more profitable than most other investments. As a general rule, a man with prudent management, who invests a few thousand dollars in this manner, and devotes his time to the business, will make 12 or 15 per cent.; but it is to be considered that he has incorporated his own labor with it, and when the value of his labor is deducted, he will not be a greater gainer than he would be if he had loaned his money at interest, and hired out his services to some other person. It is, in general, very much the same with regard to the profits of capital invested in land. A man may have a very small surplus production on hand at the end of the year, on a farm of one or two thousand dollars in value; yet he may, in the mean time, have subsisted himself and his family upon the proceeds of his industry applied to its cultivation, and the amount of the proceeds thus consumed, added to the surplus, will be compounded of the value of his services and the actual profit. It sometimes happens that a man borrows a sum of money (say \$1,000) paying the legal rate of interest, seven per cent., and by devoting his time and skill to the object of the investment, makes a very large profit, (say 25 per cent.) Now it is obvious that 18 per cent. is the wages of labor. He has by extraordinary skill procured a large return for his industry; but the capital employed has yielded but seven per cent. to the lender. It is conceived that money invested in lands in the country, cultivated by the proprietors, is, as a general rule, as profitable as money loaned at interest. Ground rents in the city are generally much below the legal rate of interest; but they are to be regarded as an exception to the general rule:—1st, because they are generally the property of capitalists, who aim at a secure rather than a profitable investment; and, for the same reason, often loan their money below the legal rate of interest; and, 2d, because the progressive advance in the price of lots often induces them to retain them at a low rent, and frequently at no rent at all. The same remarks in substance may be applied to lands leased in the country.

*Question 35.* Are not the manufactures of salt and iron, remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?

This question cannot, from the nature of the cases to which it relates, be answered in general terms. There is, in almost every case, some circumstance peculiar to itself, which affects the answer applicable to it. For instance, the salt manufactures at Salina, in Onondaga county, New York, undoubtedly protect themselves to the extent of the demand for them, to a certain distance in every direction from the point of manufacture; but this distance varies also in every direction. In the direction of the Hudson river, the manufacture has the benefit of canal transportation to Albany, where it can be carried at an expense of six cents per bushel. Here it meets the foreign salt, which has the benefit of river transportation from New York to Albany, where it can be carried for 3½ cents; and, with the present reduced impost, the foreign will make Albany the exterior of the circle supplied by the domestic. In this direction, the distance is only 160 miles. In the opposite direction, the exterior of the circle is much more distant. It is conveyed nearly 200 miles on the Erie canal to Buffalo, where it finds water transportation to the Territory of Michigan, 300 miles further, and thence to still more distant regions. The circle is bounded by the supply of rival articles, and it is obvious that the distance of the boundary will, in any direction which the manufacture takes in pursuit of a market, be in an inverse ratio of the expense of carrying it to the point at which the rival article enters into competition with it.

The extent of the circle will also be varied by any change in the amount of duty imposed either on the domestic or the foreign article. To recur to the case of salt; the duty on the foreign article has recently been reduced ten cents per bushel. The price of transporting a hundred pounds weight to Albany from New York is about seven cents; the statute bushel of salt is 56 pounds, or two bushels make a hundred pounds gross weight. Now, if the foreign salt could bear a competition with the domestic in the New York market before the duty was reduced, it could, with the reduction of duty, pay its own transportation to Albany,

and meet the domestic salt in the Albany market, with an advantage of three cents per bushel in its favor more than it had in the New York market. If the competition were equal in New York (and it was decidedly in favor of the foreign,) the result would be to expel the domestic salt from the Albany market, in case the supply of the foreign article were equal to the demand; and that it will be there is no doubt.

The imposition of a duty or excise upon the domestic article operates precisely like a reduction of the duty or impost on the foreign. It reduces the circle supplied by the domestic. If the duty of 12½ cents, imposed by the laws of New York on every bushel of salt manufactured at Salina, were to be removed, it would more than pay the whole expense of its transportation to the city of New York. The enlargement of the circle supplied by the domestic article in any given direction from the point of manufacture, in consequence of the reduction of the duty upon it, would be precisely the measure of the distance to which it could be carried in that direction for a sum equal to the amount so reduced, if the circle were not bounded by rival articles. But, as this is the case, the rival articles are to be forced back as the domestic advances, and the resistance in the one case may be considered equal to the progressive force in the other, where the facilities of transportation in both directions are equal. Assuming the expense of transportation to be equal in both directions, if five cents will pay the transportation of a bushel of salt one hundred miles, at the exterior of the circle supplied by that article, a reduction of a duty upon it to the amount of five cents will enlarge the circle fifty miles in that direction.

The ability of an article of domestic manufacture to protect itself in a certain circle around the point of manufacture, is governed also by the extent of the demand for it. No foreign salt can compete with the Onondaga at the point of manufacture, but the market there is extremely limited. It is, therefore, compelled to seek distant markets. The demand at the point of manufacture is supplied directly from the works, as there are a great many small manufacturers who are willing to barter their productions. But the converse is, as a general rule, true of large establishments. They cannot enter into retail operations; their productions are often contracted for in advance for the supply of distant markets. The practice of paying their workmen weekly makes their business, of necessity, a cash business:—they cannot barter, therefore, or dispose of their productions in small portions, or on uncertain credits. The consequence is, that articles manufactured in the interior are frequently transported to New York for a market, and carried directly back by retailers to be vended in the neighborhood of the manufactory. Thus, as a general rule, the productions of large establishments in the interior have to bear the burden of transportation to the city of New York for a market, as wholesale operations are not carried on to any considerable extent in the interior. This is a very serious burden upon articles manufactured at a distance from the market, which are either bulky or heavy in proportion to their value.

So many circumstances are to be taken into the account, that it is impossible to reduce to precision the ability of any given article of domestic manufacture to protect itself, or the extent of the circle in which the protection is complete. Every case is governed by laws peculiar to itself, and the reply will, of course, be different in every case.

#### COTTON.

It will be perceived by an examination of the statements in relation to the cotton manufactories, that the profits on the capital employed have not, after deducting the expense of repairs, superintendence, &c. exceeded an average of seven per cent. It appears incidentally that some of these establishments were ruinously unproductive in the outset; and although the questions do not elicit an explanation of the cause, there can be little doubt that it is generally referable to the precipitancy with which their proprietors embarked in a new pursuit, impelled by the force of legislation, or by political events, without a due regard to economy, or the proper adaptation of buildings and machinery to their designs. Of the accuracy of these statements no doubt is entertained. The individuals who have made them are generally men of character and respectability; and the idea of any intentional misrepresentation on their part is inadmissible. Their means of intelligence are of the highest character; they are generally agents or proprietors of the establishments of which they have furnished statements. Although the average profit of capital invested in cotton manufactures has not exceeded the average profit of capital otherwise employed, it will be perceived that particular establishments have realized greater returns on their investments than others. This difference, however, it is believed, is to be traced to superior management, or more fortunate combinations of circumstances, or both; to the same causes, by the force of which an individual cultivating a hundred acres of land, will subsist himself and family, and have, at the end of the year, a surplus of the products of his industry; while another individual, his nearest neighbor, with the same quantity of land, and with equal advantages in all respects, will, at the end of the year, be found with a burden of debt. It will appear, too, that pri-

rate manufacturing establishments exhibit a greater average profit than joint-stock establishments. But this apparent difference will be found to be, in most cases, less than would at first glance be supposed. Individual proprietors are usually the superintendents of their own establishments: they pay nothing, therefore, for superintendence, but the value of their own labor is contained in the amount of their profits; and if the expenditure, on account of superintendence, &c. which their own services have saved, were deducted from that amount, as it should be, the balance would not much exceed, as a general rule, the average rate of profit in joint operations. A reason, however, may be found in the superior vigilance of individual interest why the average rate of profit should be somewhat greater. Individual proprietors may also avail themselves of favorable circumstances to make advantageous arrangements by assuming responsibilities, which agents, whose authority is always limited by regulations, would not be able to assume.

The cotton manufacturers are opposed to the removal of the duty upon foreign goods of the same description as those which they produce. Although they believe they are able to compete, in the manufacture of coarse cottons, with the British manufacturers, they are apprehensive that a reduction of the duty, to a considerable extent on the imported, might induce the latter to attempt to break them down by sending large supplies into the United States, and vending them at a present loss, with a view to an ultimate gain; and that their vast superiority of capital would give them great advantages in such a contest. At all events, they apprehend that much temporary individual embarrassment and loss might ensue, without any permanent gain to the public. It is believed that the difficulty of apportioning such temporary loss among the foreign manufacturers in proportion to their ultimate gains, is so great as to afford effectual security against this evil. The apprehension, in which so many of the cotton manufacturers concur, that a foreign article, equal in appearance but inferior in quality with theirs, might compete successfully with theirs, appears to me quite groundless. Such an article would, in my opinion, find its market value controlled by quality. It is also apprehended, as there are many manufactures of the finer cotton fabrics which are barely able to compete with the foreign, that a reduction of duty on the imported would force them into the manufacture of the coarser fabrics, and that the increased competition would glut the market with the latter, and produce much temporary loss. For this apprehension there seems to be some ground. But, without inquiring further into the foundation of these opinions, if one of the positions assumed by the Anti-Tariff Convention be true, that the duty on coarse cotton fabrics is nominal merely, as the domestic manufacture is exported, and the foreign of the same description is never imported; and if the object of a readjustment of the tariff be to reduce the revenue, it may be worthy of consideration whether a reduction of the duty on coarse cotton fabrics might not, by possibility, lead to an increase of revenue; whether, at all events, such a reduction be not totally unconnected with the object in view, as no revenue is derived from that source. It may be worthy of consideration, also, as the supply of the domestic manufacture is abundant, and the price at times exceedingly reduced, and always regulated by competition, whether any section of the country can be permanently benefitted by a reduction of duty on the foreign article; whether, in the actual state of that manufacture, any section of the country would look upon such a reduction in the light of a concession.

#### IRON.

It will be perceived by the returns, that iron castings are, as a general rule, the most profitable species of the iron manufacture; and the reason probably is, that they are less within the reach of foreign competition, and generally conducted by private enterprise. Castings include not only stoves and articles of a similar nature in general use throughout the country, which must be accommodated in fashion to the prevailing taste, but machinery and other articles which are made to order, and are constantly varying in size and pattern to suit particular establishments. These are of necessity, therefore, to a great degree, manufactured at home, and the price will be principally determined by domestic competition. Capital employed in this species of the iron manufacture appears to average ten per cent. It is believed that this superiority of profit over the average profit of other branches of the iron manufacture is to be accounted for only by the causes above assigned, particularly as the duty on imported castings is lower than that on any other species of manufactured iron. It may, therefore, be considered nearly, if not wholly, independent of foreign competition; and the superior profit is an evidence, also, that domestic competition, in that branch, has not yet reached its maximum. These remarks are applicable only to establishments in the interior of the State of New York, from which the returns have been derived. Whether they will justly bear a more extended application to the full extent of what has been said, may be doubtful.

Upon reflection, I have considered it impossible to furnish a satisfactory reply to question No. 37. It appears to be applicable to American manufactures generally; and the term "consumption" would seem to include not merely the raw materials used in the process of manufacture, but the whole amount of all they consume. The aggregate profit on capital and labor employed in manufacturing, would be precisely the difference between production and consumption; and this difference, if it could be ascertained, would be precisely the proportion required.

It will be perceived that there is a general concurrence in the returns from manufacturing establishments, in stating the wages of the laboring classes, and that the rate of wages is nearly uniform throughout the State. The average wages of common laborers is about \$10 per month, besides board; when hired for a single day, 75 cents, without board. The average wages of mechanics is \$1 25 per day, without board. Most of the laborers employed in manufacturing establishments are of as high a grade as carpenters or masons, and their wages will average about the same.

In estimating the comparative product of the various branches of industry, the rate of wages paid for labor is worthy of consideration. In relation to labor employed in manufactures or the mechanic arts, it is generally high compared with agricultural labor, and equally high compared with that employed in, and connected with, commerce, as lumbering, rafting, boating, coasting, navigation, &c.

The payment of high wages does not always prove that a particular branch of manufacturing industry is at a given period prosperous; for the proprietors may find the alternative presented of yielding an undue proportion of the product of their business to the laborer, or of abandoning the pursuit, and thereby foregoing the amount of profit which they might otherwise have derived from it. Yet, where a portion of the industry of a country, so great as that of manufactures and the mechanic arts, pays high wages throughout all its branches, and that too in a country like ours, with a wide field for labor, with a population possessing, beyond any other, intelligence, ingenuity and enterprise, and changing their pursuits with facility, we cannot resist the inference that such pursuits are more productive than others, which yield to labor a more stinted reward.

Capital and labor undoubtedly tend to equalize themselves by seeking employments which yield the greatest returns, and, by increasing competition in the branches to which they are applied, and diminishing it in those from which they are withdrawn, to reduce to the same level of profit all which are equally inviting. Agriculture is more inviting to capital than other investments, because its losses are fewer: to labor it is more so than most other employments, because it is less irksome, and involves fewer sacrifices of comfort. Where the attractions are equal, there is a strong tendency to an equalization of profit; but the process of equalization is likely to be slow, as the policy of a government is fluctuating, or its external relations subject to frequent vicissitude and change. The effect of these causes is to produce a great demand for labor at one time, and to throw laborers out of employment at others. Higher wages are necessary, therefore, to induce them to enter into pursuits which hold out to them the prospect only of a temporary employment. Should the policy of the country become fixed, so that it might be relied on with certainty for a course of years, it is believed that the wages of labor in one department of industry would differ from that in another only as one should be superior to another in its freedom from restraints, and in the facility with which a practical knowledge of it might be acquired.

It will be observed that the remarks above made, consist principally of inferences drawn from the facts to which they relate. They will not be considered either as impeaching or defending any system of economy; and it is believed that they contain nothing inconsistent with the plan of adjusting the existing tariff upon principles which, without affecting the immediate prosperity of manufactures, will remedy acknowledged defects, and promote, ultimately, the interests of every department of industry.

All the returns which have been received will be enclosed in two separate packets, and transmitted by this day's mail addressed to you. Some others will probably be furnished in the course of a few days: if so; they will be immediately forwarded to you.

As soon as the accounts of my agents shall be presented, and audited by me, and some other accounts for contingent expenses, postage, &c. shall be prepared, I will forward them to you.

I am, very respectfully,  
Sir, your obedient servant,

ALVIN BRONSON.

Hon. LEWIS McLANE, Secretary U. S. Treasury Dept. Washington.

## DOCUMENT 10.—No. 2.

*Cotton Manufactory belonging to Benjamin Jackson, Poughkeepsie, Dutchess County, New York.*

| QUESTIONS.                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                                                          | 1. Water power on the Wappingoes Creek.                                                                                                                                                                                                                                                                                                                                  |
| 2. When established; and whether a joint stock concern?                                                                                                                | 2. Originally established in 1813 or 1814. Whether originally joint stock, or individual, or partnership, do not know. Has been owned by the present proprietor since 1830.                                                                                                                                                                                              |
| 3. Capital invested in ground and buildings, water power and machinery?                                                                                                | 3. The agent is ignorant of the capital invested.                                                                                                                                                                                                                                                                                                                        |
| 4. Average amount in materials, in cash, for the purchase of materials & payment of wages?                                                                             | 4. Cash paid for wages out of materials, 2,000 dollars per month.                                                                                                                                                                                                                                                                                                        |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory?                                                                           | 5. The owner, Benjamin Jackson, resides in the city of New York. Mr. King, the agent, says that the cotton is purchased by Mr. Jackson, and sent by him from New York to the manufactory. The goods manufactured are sent by the agent to Mr. Jackson in New York, and sold by him. The agent is ignorant of the costs of the cotton, and also of the sale of the goods. |
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                               | 6. The agent cannot answer.                                                                                                                                                                                                                                                                                                                                              |
| 7. What has been the rate of profits annually for the last three years:—if a joint stock company, what dividends have been received?                                   | 7. The agent cannot answer.                                                                                                                                                                                                                                                                                                                                              |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and, therefore, not annually divided? | 8. The agent cannot answer.                                                                                                                                                                                                                                                                                                                                              |
| 9. Causes of the increase or decrease of profit at different periods of time?                                                                                          | 9. The increase and decrease of profit, at different periods, is generally caused by our market being overstocked by the importation of foreign goods of similar quality to those manufactured here.                                                                                                                                                                     |
| 10. Rates of profit on capital otherwise employed in the same county and State?                                                                                        | 10. From six to ten per cent.                                                                                                                                                                                                                                                                                                                                            |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                 | 11. For the last two years, there has been made, per month, from five to six thousand yards of ten hundred sheeting, varying in price from 8½ to 10½ cents per yard.                                                                                                                                                                                                     |
| 12. Quality and value of raw materials annually used, distinguishing between foreign and domestic products?                                                            | 12. Ten thousand pounds of cotton per month, he thinks cost from 10 to 12 cents per pound.                                                                                                                                                                                                                                                                               |
| 13. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                        | 13. Cannot answer.                                                                                                                                                                                                                                                                                                                                                       |
| 14. Number of men, women, and children employed, and average wages of each class?                                                                                      | 14. 11 men, average wages per month, \$6; 43 girls, above 16 years old, average wages, \$2 per week; 25 small hands, from 9 to 15 years old, average wages, \$1 25 per week.                                                                                                                                                                                             |
| 15. How many hours a day employed, and what portion of the year?                                                                                                       | 15. Twelve hours per day is the time calculated upon. Usually there are from three to four days stoppage in a year for holy-days, 4th July, &c.                                                                                                                                                                                                                          |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                  | 16. About the same as those employed in the manufactory.                                                                                                                                                                                                                                                                                                                 |



## DOCUMENT 10.—No. 2—Continued.

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 17. Number of horses or other animals employed?                                                                                                                                                                                                        | 17. Three horses.                                                                                                              |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                                                                                                | 18. No sales at the factory. Sent to the New York market, about eighty miles.                                                  |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale?                                                                                                                                                  | 19. Yes.                                                                                                                       |
| 20. Where are the manufactures consumed?                                                                                                                                                                                                               | 20. Principally in the United States. The South and West consume the most.                                                     |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                                                                   | 21. Some of the manufactures are sent to South America.                                                                        |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                 | 22. Sold on a credit of about six months.                                                                                      |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased? how much in each year from the establishment of the manufactory? and whether the increase has been in the materials or the labor, and at what rate? | 23. The cost to the manufacturer has decreased in consequence of the improvement in machinery. Cannot tell the rate.           |
| 24. The prices at which the manufacture has been sold by the manufacturer since he establishment?                                                                                                                                                      | 24. See No. 11.                                                                                                                |
| 25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                             | 25. The present duties, if no fraud is practised.                                                                              |
| 27. What portion of the cost of your manufactures consists of the price of the raw material? what portion of the wages of labor, and what portion of the profits of capital?                                                                           | 27. Cannot tell.                                                                                                               |
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?                                                                                                        | 28. In agricultural productions, \$375 per month; and of other domestic productions, \$50 per month.                           |
| 29. What quality or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?                                                                                                                         | 29. Cannot tell.                                                                                                               |
| 30. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices?                                              | 30. Were the duties on foreign goods, of the kind manufactured here, reduced, it would be as well to discontinue the business. |
| 34. Average profit of money or capital in your county?                                                                                                                                                                                                 | 34. Seven per cent.                                                                                                            |
| 35. Average rate of wages in your county?                                                                                                                                                                                                              | 35. From six to twelve shillings per day.                                                                                      |

## DOCUMENT 10.—No. 3.

*Farmers' Manufactory of Cotton, situate in the town of Schaghticoke, in the County of Rensselaer in the State of New York, March, 1832. R. P. Hart, Agent.*

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <p>1. By what power—water, steam, or what other?</p> <p>2. When established; and whether a joint stock concern?</p> <p>3. Capital invested in ground and buildings, water power, and machinery?</p> <p>4. Average amount in materials, in cash for the purchase of materials, and payment of wages?</p> <p>5. Annual rate of profit on the capital invested since the establishment of the manufactory?</p> <p>6. How much of the capital is borrowed, and what interest is paid on it?</p> <p>7. What has been the rate of profits annually for the last three years? If a joint stock company, what dividends have been received?</p> <p>8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and, therefore, not annually divided?</p> | <p>1. Water.</p> <p>2. 1810, 1818, and 1826. Joint stock company.</p> <p>3. 116,000 dollars.</p> <p>4. 30,000 dollars.</p> <p>5. The loss far exceeds the profits taken from the commencement, to wit, 1810.</p> <p>6. 30,000 dollars, at 7 per cent.</p> <p>7. In answer to this inquiry, I have to say that, during the year 1828, the markets for the coarser fabrics of cotton goods were much depressed by considerable importations coming in competition with our own manufactures, so that our profits did not exceed seven and a half per cent. The extension of the minimum, by the tariff of 1828, induced many of the manufacturers to change from the coarser to the finer fabric, which, with the almost total suspension of importations, relieved the markets; and the cloths made from yarns of Nos. 14 to 22, advanced so that the profits of the year 1829 were about ten per cent. This improvement in prices brought many new spindles into operation, by which the market was again overstocked by the domestic supply, and reduced the profits of 1830 to about 8½ per cent. During 1829 and 1830 many new printing establishments were put in operation, which cleared the market of the goods made of yarns from Nos. 14 to 30. This demand caused much commotion among the manufacturers, and prices advanced so, that 1831 closed with profit of 15 per cent.: I wish to be understood in giving the per centage of profits. The deterioration of the machinery, buildings, &amp;c., are not taken into consideration.</p> <p>The present year has commenced with very unfavorable prospects both to the printers and manufacturers. Cloths which were purchased the last year at 6 to 8 cents per yard, are now in the market, handsomely printed, at 6½ to 9 cents per yard. These are less prices than have ever been known before; and if the manufacturer has to reduce the price of his goods in the same proportion as the printer, the business of the present year must close with a loss.</p> <p>8. The whole income has been invested in fixed capital. No dividend has ever been made.</p> |

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 9. Causes of the increase (or decrease) of profit at different periods of time?                                                                                                                                                                        | 9. See answer to inquiry No. 7.                                                                                                               |
| 10. Rates of profit on capital otherwise employed in the same county and State?                                                                                                                                                                        | 10. From 6 to 20 per cent.                                                                                                                    |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                 | 11. Amount of goods made annually have been from 30,000 dollars to 70,000 dollars, principally 3-4 and 4-4 shirtings, of yarns Nos. 16 to 24. |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                                                                                                           | 12. 25,000 dollars domestic, 10,000 dollars foreign.                                                                                          |
| 14. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                      | 14. 31 men, at \$6; 71 girls, at \$2 30; 66 boys, at \$1 50; 24 boys, at 87 cts. per week.                                                    |
| 15. How many hours a day employed, and what portion of the year?                                                                                                                                                                                       | 15. 12 hours.                                                                                                                                 |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                                                                                                  | 16. The manufacturers pay higher wages than the farmers.                                                                                      |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                                                                                                | 18. A small portion of the goods made are sold at the factory. Most of them are sent to the city of New York for a market.                    |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?                                                                                                                              | 19. Not to any very great extent.                                                                                                             |
| 20. Where are the manufactures consumed?                                                                                                                                                                                                               | 20. Principally in this country. I understand considerable quantities are exported from Boston and Baltimore.                                 |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                                                                   | 21. A proportion are exported.                                                                                                                |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                 | 22. Usually sold on a credit of 6 to 8 months.                                                                                                |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23. There has not been much variation in the cost of the raw materials, or the labor, within the last three years.                            |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                                                                     | 24. From 6 to 25 cents per yard.                                                                                                              |
| 25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                             | 25. The present duty is a full protection to cotton goods not exceeding in value 6 to 12 cents per yard.                                      |
| 26. Is any change necessary, in levying or collecting duties on such articles, to prevent fraud?                                                                                                                                                       | 26. I know of none.                                                                                                                           |
| 27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                           | 27. $\frac{1}{3}$ in the raw material; $\frac{1}{3}$ in labor, &c.                                                                            |
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?                                                                                                        | 28. 8,000 dollars agricultural productions; 20,000 dollars other domestic productions.                                                        |
| 29. What quantity or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?                                                                                                                        | 29. Amount of cotton manufactures in the State of New York is about \$3,520,000.                                                              |

DOCUMENT 10.—No. 3—Continued.

| QUESTIONS.                                                                                                                                                                                                | ANSWERS.                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 30. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices? | 30. Should continue the business at 12½ per cent.                                                                                                        |
| 31. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                            | 31. Cannot say.                                                                                                                                          |
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent.?                                            | 32. There might be other pursuits more profitable, but the large amount invested would prevent a change, as a change might sacrifice the capital.        |
| 33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent., and how gradual should the reduction be?                               | 33. The fact is now well established, that the domestic competition will keep the profits at its lowest standard without the aid of foreign competition. |
| 34. Average profit of money or capital in your county?                                                                                                                                                    | 34. From 6 to 20 per cent.                                                                                                                               |
| 35. Average rate of wages in your county?                                                                                                                                                                 | 35. Variety; as great as men's capacities; from 25 cents to \$5 per day.                                                                                 |

Mr Hart is a very active, industrious, intelligent manufacturer. He is a proprietor, and one of the agents of the establishment of which he has furnished the within account. The general abstract of all the cotton factories in the State was furnished by him.

J. A. DIX.

DOCUMENT 10.—No. 4.

*The Phoenix Cotton Manufactory, situate in the town of Middlefield, in the County of Otsego, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                   | ANSWERS.                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                | 1. By water power.                                                                                                                                                                                                                                                                       |
| 2. When established, and whether a joint stock concern?                                      | 2. Is a joint stock concern, and was established in 1819.                                                                                                                                                                                                                                |
| 3. Capital invested in ground and buildings, water power and machinery?                      | 3. The cotton mill and spinning machinery and buildings were erected in 1814, at an expense of 40,000 dollars, and passed into the hands of the present company in 1819, for twenty thousand dollars. Since which they have expended in grounds, new erections, and machinery, \$17,500. |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages? | 4. \$15,600.                                                                                                                                                                                                                                                                             |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory? | 5. The average rate of profits, since their establishment has been in operation, is seven per cent.                                                                                                                                                                                      |
| 6. How much of the capital is borrowed, and what interest is paid on it?                     | 6. 15,600 dollars has been borrowed at an interest of seven per cent., and the raw material has usually been purchased for cash, but sometimes on a credit of from four to six months.                                                                                                   |

| QUESTIONS.                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7. What has been the rate of profits annually for the last three years? If a joint stock company, what dividends have been received?                                   | 7. No dividends have been received at any time.                                                                                                                                                                                                                                 |
| 8. What portion of the income of the company has been converted into fixed-capital, or retained for contingent or other objects, and, therefore, not annually divided? | 8. The whole of the income of the company has been retained in the business.                                                                                                                                                                                                    |
| 9. Causes of the increase (or decrease) of profit at different periods of time?                                                                                        | 9. The causes of decrease of profits have been the increased quantities of cloth manufactured, which have, at times, overstocked the market, the supply exceeding the demand.                                                                                                   |
| 10. Rates of profit on capital otherwise employed in the same county and State?                                                                                        | 10. Capital employed in other business yields from ten to fifteen per cent.                                                                                                                                                                                                     |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                 | 11. 275,000 yards of shirting, of Nos. 17 and 18, value from 7 to 7½ cents per yard. 25,000 yards of sheeting, of Nos. 17 and 18, value from 8½ to 9 cents per yard.                                                                                                            |
| 12. Quality and value of raw materials annually used, distinguishing between foreign and domestic products?                                                            | 12. 75,000 pounds best New Orleans cotton, value at the mill 12½ cents per pound.                                                                                                                                                                                               |
| 13. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                        | 13. No similar articles of manufacture are imported from abroad.                                                                                                                                                                                                                |
| 14. Number of men, women, and children employed, and average wages of each class?                                                                                      | 14. Men, 15; average wages per week, \$6. Boys, 7; average wages per week, \$2. Females, 52, (including 24 weavers,) average wages per week, \$2 31. They board themselves at these prices, at the company's boarding house: men at \$1 25 per week, and women at \$1 per week. |
| 15. How many hours a day employed, and what portion of the year?                                                                                                       | 15. They are employed some seasons of the year over 12 hours per day, and some seasons under twelve hours, calculating to average twelve hours a day during the year.                                                                                                           |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                  | 16. The rates of wages for the same classes in the employ, would be less, by at least twenty per cent. The confinement of females so many hours in the day, renders them unwilling to engage in this business without more wages than they could make otherwise.                |
| 17. Number of horses or other animals employed?                                                                                                                        | 17. One span of horses and two yoke of oxen. The transportation is done by teamsters.                                                                                                                                                                                           |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to market?                                                                  | 18. The manufacturers do not find a vent at the manufactory, but are sent to New York to market 220 miles. A small part are exchanged at home for provisions, &c.                                                                                                               |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?                                              | 19. No foreign articles of the like kind enter into competition with them at New York.                                                                                                                                                                                          |
| 20. Where are the manufactures consumed?                                                                                                                               | 20. The greatest part of them are consumed in the country.                                                                                                                                                                                                                      |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                   | 21. Do not know.                                                                                                                                                                                                                                                                |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                 | 22. The sales are made on a credit of from 6 to 8 months, except a small part: About one-twentieth part of the whole is sold at home, and bartered for agricultural productions.                                                                                                |

| QUESTIONS.                                                                                                                                                                                                                                                    | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?</p> | <p>23. The cost has decreased in consequence of improvements in machinery, and the wages are rather less than formerly, the whole making a difference of about two mills on the yard.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <p>24. The prices at which the manufacture has been sold by the manufacturer since the establishment?</p>                                                                                                                                                     | <p>24. In 1820 the manufacture sold for twelve and a half cents, and the price gradually declined until 1829, when it was for some time sold for less than the cost of the manufacture. Since then the price has advanced from one to two cents.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p>25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?</p>                                                                                                             | <p>25. Any alteration of the present rate of duties would be a dangerous experiment. It would be useless; for it is admitted, on all hands, that the price in market is as low as it can be made for. If the rate of duty is so reduced as to admit a similar article from abroad, the market will be immediately glutted, and goods will fall so that a great portion of the manufacturers will be ruined; and when so many shall have abandoned the business, that prices shall again become regular, they will be higher than they now are, as there will be less competition. Besides, the similar article made in England is not worth more than half as much as that made here: it is made of inferior cotton not worth more than half as much as that used here; and the value of the fabric for service will be nearly in proportion to the value of the cotton used.</p> |
| <p>26. Is any change necessary in levying or collecting duties on such articles to prevent fraud?</p>                                                                                                                                                         | <p>26. No change is necessary in levying or collecting duties to prevent fraud.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p>27. What portion of the cost of your manufactures consists of the price of the raw material; what portion of the wages of labor; and what portion of the profits of capital?</p>                                                                           | <p>27. The price of a yard of shirting, at the present price of cotton, will consist of the raw material, - 3.00 cents.<br/>Wages of labor, - 3 00<br/>Profits of capital from - 1.00 to 1.05</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <p>28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?</p>                                                                                                        | <p style="text-align: right;">7.00 to 7½</p> <p>From which is to be taken insurance at from 3 to 3½ per cent. premium.</p> <p>28. 5,000 pounds butter; 13,000 lbs. pork; 4,500 pounds beef and mutton; 1,500 pounds cheese; 400 bushels wheat; 500 bushels corn; 600 bushels rye; 360 gallons sperm oil; 1,000 dollars worth of iron, leather, lumber, coal, &amp;c.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <p>29. What quantity or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?</p>                                                                                                                        | <p>29. Cannot state.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <p>30. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices?</p>                                              | <p>30. If it were reduced to 12½ per cent., they might be obliged to discontinue their business; the supply would so far exceed the demand, that no market could be had for the article, and sales would, for one or two years, be made at less than cost.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>31. If it would cause you to abandon your business, in what way would you employ your capital?</p>                                                                                                                                                         | <p>31. If the business should be discontinued, or abandoned, the whole capital would be wholly lost.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## DOCUMENT 10.—No. 4—Continued.

| QUESTIONS.                                                                                                                                                                | ANSWERS.                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent.?            | 32. They think there is; and that there would be scarcely any which would not be more profitable.                                                                     |
| 33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent., and how gradual should the reduction be? | 33. Any reduction will be attended with such manifest risk to the whole capital employed in the cotton business, that Congress ought not to hazard the experiment.    |
| 34. Average profit of money or capital in your county?                                                                                                                    | 34. The legal rate of interest is seven per cent. The profits of capital, otherwise employed, yields from ten to fifteen per cent.                                    |
| 35. Average rate of wages in your county?                                                                                                                                 | 35. Female wages are from 75 to 87½ cents per week. Men laborers, on farms, receive from \$8 to \$10 per month; and mechanics from \$10 to \$15 per month, and board. |

COOPERSTOWN, March 14, 1832

ROBERT CAMPBELL.

Mr. Robert Campbell, who prepared the within statement, is president of the Otsego County Bank, a member of the bar of high reputation, and a man of the strictest honor and integrity. He is one of the proprietors of the Phoenix Factory, and has devoted part of a day every week to the supervision of its concerns. His statement of facts is entitled to entire credit. His opinions (as expressed in the within, and in the account of the Union, Hope, and Oakville factories, which he visited) will, of course, pass for so much as they shall be found to be worth. If he is mistaken in any thing, it is probably in his estimate of the profits of capital "otherwise" employed; and, from the common error of calculating the profits of a particular branch of business, without offsetting losses, and of adding to the real profits of small capitals the value of the services rendered by the individuals who manage them.

J. A. DIX.

## DOCUMENT 10.—No. 3.

*Hope Manufactory of Cotton Goods, situate in the town of Otsego, in the County of Otsego, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                   | ANSWERS.                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                | 1. By water power.                                                                                                                                                                                                                                |
| 2. When established; and whether a joint stock concern?                                      | 2. Is a partnership, and not a joint stock concern. Established in 1820.                                                                                                                                                                          |
| 3. Capital invested in ground and buildings, water power and machinery?                      | 3. In July, 1820, the establishment, which had been erected in 1814, passed into the hands of the present proprietors for the sum of \$42,000; since which they have expended in grounds, new erections, and machinery, \$38,000. Total \$80,000. |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages? | 4. \$19,000.                                                                                                                                                                                                                                      |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory? | 5. The annual rate of profit has been seven per cent.                                                                                                                                                                                             |

DOCUMENT 10.—No. 5—Continued.

| QUESTIONS.                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                             | 6. None.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 7. What has been the rate of profits annually for the last three years? If a joint stock company, what dividends have been received?                                 | 7. The rate of profits for the last three years has been seven per cent.                                                                                                                                                                                                                                                                                                                                                     |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and therefore not annually divided? | 8. None.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 9. Causes of the increase (or decrease) of profit at different periods of time?                                                                                      | 9. Different prices of cotton, and at times the manufacturing of more goods than were required to supply the demand, have caused a decrease of profits.                                                                                                                                                                                                                                                                      |
| 10. Rates of profit on capital otherwise employed in the same county and State?                                                                                      | 10. Capital otherwise employed yields from ten to fifteen per cent., except on loans of money, which yields seven per cent.                                                                                                                                                                                                                                                                                                  |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                               | 11. For the last four years, they have manufactured yearly \$430,000 yards of brown shirtings and sheetings, 3-55ths thereof being sheetings, and the residue shirtings of Nos. 17 and 18; the value of shirtings from 7 to 7½ cents per yard, and sheetings 9 cents, deducting freight, commissions on sales, &c. Previous to that time, they manufactured on an average 300,000 yards yearly of the same quality of goods. |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                         | 12. 104,000 lbs. of the best Alabama and New Orleans cotton, value at the mill for the last year 12½ cents per lb.                                                                                                                                                                                                                                                                                                           |
| 13. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                      | 13. Do not know that any similar article is imported from abroad into the United States.                                                                                                                                                                                                                                                                                                                                     |
| 14. Number of men, women, and children employed, and average wages of each class?                                                                                    | 14. Males, most of them men, 18, whose average wages per week amounts to .6. Females (including 27 weavers) 82, whose average wages per week amounts to \$2 30. They are boarded at the company's boarding house, for which the men pay \$1 25 per week, and the women pay 1 dollar per week.                                                                                                                                |
| 15. How many hours a day employed, and what portion of the year?                                                                                                     | 15. They calculate to employ the hands 12 hours a day during the year; a part of the time exceeding 12 hours, a part of the time less than 12; so as to average 12 hours throughout the year.                                                                                                                                                                                                                                |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                | 16. The rate of wages of similar classes otherwise employed in the same State and county, would be twenty per cent. less, more especially the females.                                                                                                                                                                                                                                                                       |
| 17. Number of horses or other animals employed?                                                                                                                      | 17. They keep two horses and one yoke of oxen; their transportation is done wholly by persons employed as teamsters.                                                                                                                                                                                                                                                                                                         |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                              | 18. About 1-20th part of the goods are sold at the manufactory; the residue are sent to New York and Albany for a market, but principally to New York. Distance from Albany 70 miles; from New York 220 miles.                                                                                                                                                                                                               |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale? If so, to what extent?                                         | 19. They do not. No articles of the like kind, of foreign manufacture, are imported into the United States.                                                                                                                                                                                                                                                                                                                  |



| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20. Where are the manufactures consumed?                                                                                                                                                                                                               | 20. Cannot state where consumed.                                                                                                                                                                                                                                                              |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                                                                   | 21. They have no knowledge on this subject.                                                                                                                                                                                                                                                   |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                 | 22. They are sold generally on a credit of from six to eight months, without interest. A small quantity at home are bartered for agricultural productions.                                                                                                                                    |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23. The cost has rather decreased; when the price of cotton was the same, partly in consequence of improvements in machinery, and partly from the reduction of the wages of the hands employed. This decrease is however but small.                                                           |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                                                                     | 24. The brown shirtings were sold in 1890 for 12½ cents per yard; they declined in price gradually until 1829, when they had reached 6½ cents; since which the price has increased in market.                                                                                                 |
| 25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                             | 25. Any alteration of the present rate of duties would be hazardous to the persons employed in the cotton business. The rate of duties should be so high as to exclude the coarse fabrics (such as they make) entirely.                                                                       |
| 26. Is any change necessary in levying or collecting duties on such articles to prevent fraud?                                                                                                                                                         | 26. Do not know any thing about it.                                                                                                                                                                                                                                                           |
| 27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                           | 27. The price of a yard of shirting, at the present price of cotton, would be composed of the raw material 3 cents, wages of labor 3 cents; and whatever would remain after paying insurance, which amounts to three and three and a half per cent. premium, would be the profits of capital. |
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?                                                                                                        | 28. They consume yearly 5,500 lbs. butter, 15,000 lbs. pork, 5,000 lbs. beef and mutton, 2,000 lbs. cheese, 500 bshls wheat, 500 bshls. corn, 500 bshls. rye, 620 cords wood, 300 galls. winter strained sperm. oil, and 1000 dolls. worth of iron, leather, lumber, coal, &c.                |
| 29. What quantity or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?                                                                                                                        | 29. Cannot state.                                                                                                                                                                                                                                                                             |
| 30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices?                                               | 30. Could not manufacture at reduced prices; a reduction of the duties would first affect those engaged in the finer fabrics, and drive them upon coarse goods; an over supply would be the immediate effect.                                                                                 |
| 31. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                         | 31. The capital invested in buildings and machinery would be entirely lost.                                                                                                                                                                                                                   |
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent?                                                                                          | 32. Yes. Any other pursuit would, in their opinion, yield greater profits.                                                                                                                                                                                                                    |
| 33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent., and how gradual should the reduction be?                                                                            | 33. Any reduction would, in their opinion, be attended with great risk. It would probably destroy a great part of the manufacturers.                                                                                                                                                          |

## DOCUMENT 10.—No. 5.—Continued.

| QUESTIONS.                                             | ANSWERS.                                                                                                                                                                                                      |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 34. Average profit of money or capital in your county? | 34. The profit of money is 7 per cent. interest. Capital employed in mercantile, or other mechanical pursuits, will yield from 10 to 15 per cent.                                                             |
| 35. Average rate of wages in your county?              | 35. Female wages are from 75 to 87½ cts per week, and boarded. Men laborers on farms receive about ten dollars per month, and boarded. Mechanics receive from ten to fourteen dollars per month, and boarded. |

Coopers town, March 10, 1832.

ROBT CAMPBELL.

## DOCUMENT 10.—No. 6.

*The Oakville Manufactory of Cotton Goods, situate in the town of Otsego, in the County of Otsego, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                                                        | 1. By water power.                                                                                                                                                                                                           |
| 2. When established; and whether a joint stock concern?                                                                                                              | 2. Is the sole property of Col. Russel Williams, and was established by him in 1832.                                                                                                                                         |
| 3. Capital invested in ground and buildings, water power and machinery?                                                                                              | 3. Fifty thousand dollars.                                                                                                                                                                                                   |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                                                         | 4. Fifteen thousand dollars. It is however to be remarked, that when the contemplated enlargement of his business takes place in the spring, this sum will be greatly increased.                                             |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory?                                                                         | 5. Is not able to answer this question with much accuracy. All his business is superintended by himself, and all the profits of the establishment, as well as of his other business, have been carried into the manufactory. |
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                             | 6. He has not borrowed any capital, but has usually bought the raw material for carrying on his business upon a credit of from four to six months. The last year he purchased for cash.                                      |
| 7. What has been the rate of profits annually, for the last three years? If a joint stock company, what dividends have been received?                                | 7. The profits on the capital invested have not exceeded seven per cent.                                                                                                                                                     |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and therefore not annually divided? | 8. The whole of the profits have been retained in the business.                                                                                                                                                              |
| 9. Causes of the increase (or decrease) of profits at different periods of time?                                                                                     | 9. The causes of the decrease of profits are the competition among the home manufacturers, and the excess of supply beyond the demand.                                                                                       |

DOCUMENT 10.—No. 6—Continued.

| QUESTIONS.                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10. Rates of profit on capital otherwise employed in the same county and State?                                                        | 10. Capital employed in mercantile or mechanical operations yields from ten to fifteen per cent. profit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 11. For the last three years, he has annually manufactured from 250,000 to 260,000 yard of cloth, from No. 20 to No. 26, which have been converted principally into blue calicoes of the value of 12 cents per yard; a very small part have been printed other colors, of rather less value than blues. Before that time, the quantity of yards manufactured did not exceed 150,000. He has made arrangements for increasing the printing business the ensuing year to 30,000 yards per week, or about 1,500,000 yards a year.                                                                                                      |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                           | 12. Fifty thousand pounds cotton, value of 45 cents per pound; 2,850 lbs indigo, value \$1 60 per lb.; 8,550 lbs. copperas, value 24 cents per lb.; \$30 worth of lime; \$100 worth of blue vitriol; \$70 worth of sugar of lead; \$900 worth of potash; \$200 worth of oil of vitriol; \$50 worth of starch gum; \$20 worth of flour; \$60 worth of blanketing for printing; \$900 worth of bleaching salts; all of which are domestic products, except the indigo, which is Bengal. 300 cards of wood are also used in the printing business, worth \$1 per card; and \$25 worth of doctors (knives used for cleaning cylinders.) |
| 13. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                        | 13. He has not seen, nor does he know, that any calicoes of the kind manufactured by him, have been lately imported. The cheap calicoes formerly imported from Great Britain were entirely different from the goods manufactured by him.                                                                                                                                                                                                                                                                                                                                                                                            |
| 14. Number of men, women, and children employed, and average wages of each class?                                                      | 14. Men 16, whose average wages amount to \$5 70 per week; boys 8, av. \$1 75; females 52, incl. 20 weavers, av. \$2 25. At these prices they board themselves, the price of which for men is \$1 25, boys and women \$1 per week. The number of men and amount of wages will be much increased by the increase of business in the calico mill.                                                                                                                                                                                                                                                                                     |
| 15. How many hours a day employed, and what portion of the year?                                                                       | 15. A part of the year they work more than twelve hours a day, and a part of the year less than twelve, making through the year an average of twelve hours a day.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                  | 16. Is at least twenty per cent. less than what they receive in this business.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 17. Number of horses or other animals employed?                                                                                        | 17. Two span of horses and one yoke of oxen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                | 18. The principal part of the goods are sent to New York for a market, 220 miles distance; about 1-15th is sold at home, and bartered for provisions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?              | 19. Few, if any, foreign articles of the kind manufactured by him, are to be found in the market: the finer qualities of goods have to compete with the British calicoes in the New York market.                                                                                                                                                                                                                                                                                                                                                                                                                                    |

December 10, N. 6—Continued.

## QUESTIONS.

## ANSWERS.

20. Where are the manufactures consumed?

20. Consumed by the working classes, and principally in the country.

21. Whether any of the manufactures are exported to foreign countries? If so, where?

21. Cannot say.

22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?

22. Sold on a credit of six months; small quantities at the manufactory are bartered for agricultural productions.

23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?

23. It has decreased a little, from improvements in machinery, and increased skill in the manufacturers. The decrease has been about two mills on the yard.

24. The prices at which the manufacture has been sold by the manufacturer since the establishment?

24. When the manufactory was first established, the goods sold at 16 cents per yard, and the price has gradually declined yearly to the present time, when they are worth 12 cents. The decrease in price is attributed to the increased quantity manufactured in the country, and the competition among those engaged in the business.

25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?

25. The same rate that is now established. Any alteration, he thinks, would ruin the calico printers.

26. Is any change necessary in levying or collecting duties on such articles to prevent fraud?

26. Can give no information on the subject.

27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?

27. The cost of a yard of calico, at the present prices of the raw material, would consist nearly of the following proportions: raw material 3-5, labor 4-5=10 cents; leaving for profits of capital and insurance two cents. The rates of insurance are from three to three and a half per cent. premium.

28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?

28. 4,000 lbs. butter; 1,500 lbs. cheese; 12,000 lbs. pork; 4,000 lbs. beef and mutton; 400 bush. wheat; 500 bush. corn; 600 bush. rye; 900 cords wood; 350 gals. sperma. oil; \$800 worth of iron, leather, lumber, coal, &c.

29. What quantity or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?

29. Cannot answer.

30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent, would it cause you to abandon your business, or would you manufacture at reduced prices?

30. It would cause him to abandon his business; he could not manufacture calicoes at reduced prices.

31. If it would cause you to abandon your business, in what way would you employ your capital?

31. It would be a total loss of the buildings and machinery, and he would have but little capital left to employ in any business.

32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent?

32. But he is confident that there is scarcely any other business which would not yield a greater profit than calico printing, if the duties were reduced to 12½ per cent.

33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent, and how gradual should the reduction be?

33. Any reduction would ruin the calico printers, and would break down a great proportion of the cloth manufacturers.

| QUESTIONS.                                             | ANSWERS.                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 34. Average profit of money or capital in your county? | 34. The legal rate of interest is seven per cent. The profit of capital employed in mercantile and mechanical business is from 10 to 15 per cent.                                                                                                                                                                                        |
| 35. Average rate of wages in your county?              | 35. The wages of females are seventy-five cents per week, besides boarding; but if those now engaged in the factories were thrown out of employ, wages would probably be reduced below that sum. The wages of labor in farming are from 8 to \$9 per mo. besides boarding. Mechanics get about one dollar per day, and board themselves. |

Coopersstown, March 13, 1832.

ROBT. CAMPBELL.

## DOCUMENT 10.—No. 7.

*The Union Cotton Manufactory, situate in the town of Hartwick, in the County of Otsego, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                                                        | 1. By water power.                                                                                                                                                                                                                                                                                                                                                       |
| 2. When established, and whether a joint stock concern?                                                                                                              | 2. A joint stock concern, established in 1809.                                                                                                                                                                                                                                                                                                                           |
| 3. Capital invested in ground and buildings, water power and machinery?                                                                                              | 3. In 1809, the capital invested was \$22,500, and was gradually increased by the profits until 1820, when it amounted to \$40,000; since which time there has been invested in buildings, new erections, and machinery, \$30,000: making now the sum of \$70,000.                                                                                                       |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                                                         | 4. Twenty thousand dollars.                                                                                                                                                                                                                                                                                                                                              |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory?                                                                         | 5. No dividends were declared before 1820. Since then, the average rate of profits have been seven per cent.                                                                                                                                                                                                                                                             |
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                             | 6. None.                                                                                                                                                                                                                                                                                                                                                                 |
| 7. What has been the rate of profits annually for the last three years? If a joint stock company, what dividends have been received?                                 | 7. The dividends for the last three years ending April, 1831, have been six per cent. on the average; that is, eighteen per cent. during the three years. Last year seven per cent. was divided; and a bad debt of several years' standing was last year secured and collected, to the amount of nearly \$7,000, and an extra dividend of seven per cent. paid thereout. |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and therefore not annually divided? | 8. None.                                                                                                                                                                                                                                                                                                                                                                 |

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8. Causes of the increase (or decrease) of profit at different periods of time?                                                                                                                                                                        | 9. The causes of the increase or decrease of profits are partly the different prices of cotton, but principally the glutting the market at times, so that the supply exceeded the demand.                                                                                                                                                                                                                                                                       |
| 10. Rates of profit on capital otherwise employed in the same county and State?                                                                                                                                                                        | 10. Capital employed in other business yields from ten to fifteen per cent.                                                                                                                                                                                                                                                                                                                                                                                     |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                 | 11. The average amount of goods heretofore has been about 300,000 annually: taking the last three years, the average is 315,154 yards shirting, of No. 16 and 17 yarn, worth $7\frac{1}{2}$ cents; and 48,115 yards sheeting, of No. 16 and 17 yarn, worth $9\frac{1}{2}$ cents: the last year, however, exceeding the two former years. From the quantity of machinery in operation, they can now manufacture from 475,000 to 500,000 yards shirting annually. |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                                                                                                           | 12. Heretofore they have used about 80,000 pounds of best New Orleans cotton, worth, at the mill, $12\frac{1}{2}$ cents per pound; but are now using 120,000 pounds of the same quality of cotton.                                                                                                                                                                                                                                                              |
| 13. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                        | 13. No similar article imported into the United States of America.                                                                                                                                                                                                                                                                                                                                                                                              |
| 14. Number of men, women, and children, employed, and average wages of each class?                                                                                                                                                                     | 14. Seventeen men, whose average wages per day amount to \$1 02<br>Sixty-one women, do do 26<br>Thirty children, do do 20                                                                                                                                                                                                                                                                                                                                       |
| 15. How many hours a day employed, and what portion of the year?                                                                                                                                                                                       | 15. Averaging the whole time twelve hours a day: some part of the year somewhat less, and a part somewhat more.                                                                                                                                                                                                                                                                                                                                                 |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                                                                                                  | 16. The rate of wages would be less in other employ.                                                                                                                                                                                                                                                                                                                                                                                                            |
| 17. Number of horses or other animals employed?                                                                                                                                                                                                        | 17. Seven horses and two yoke of oxen.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                                                                                                | 18. The goods are sent principally to New York, 220 miles; a small part, say one-twentieth of the whole, are sold at home, and bartered for agricultural productions.                                                                                                                                                                                                                                                                                           |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?                                                                                                                              | 19. There are no foreign articles of the like kind imported.                                                                                                                                                                                                                                                                                                                                                                                                    |
| 20. Where are the manufactures consumed?                                                                                                                                                                                                               | 20. The greatest part are consumed in the country.                                                                                                                                                                                                                                                                                                                                                                                                              |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                                                                   | 21. They do not know.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                 | 22. The sales are made on six to eight months' credit, except about one-twentieth part of the whole, which are sold at home, and bartered for agricultural productions.                                                                                                                                                                                                                                                                                         |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23. The cost has decreased a little by improvements in machinery, and wages a trifle less than heretofore, making a difference of from two to three mills the yard. This is to be understood of their business since 1820, when the power-loom was first introduced into their mill.                                                                                                                                                                            |

## QUESTIONS.

24. The prices at which the manufacture has been sold by the manufacturer since the establishment?

25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?

26. Is any change necessary in levying or collecting duties on such articles to prevent fraud?

27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?

28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?

29. What quantity or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?

30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices?

31. If it would cause you to abandon your business, in what way would you employ your capital?

32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent.?

33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent., and how gradual should the reduction be?

34. Average profit of money or capital in your county?

35. Average rate of wages in your county?

## ANSWERS.

24. In 1820 shirtings sold at 12½ cents per yard, and the price gradually fell until 1829, when it sold for less than cost; the net proceeds of sales being under six cents; since then the price has improved.

25. Any alteration which would admit the coarse fabrics from abroad would be ruinous to a great number of those employed in the cotton business, and without any possible benefit to the consumer or to the country.

26. No change is necessary.

27. A yard of shirting at the present price of cotton will consist nearly as follows: raw material 3 cents, wages of labor 3 cents, profits of capital 1½ cent; price of a yard of shirting 7½ cents: from this however is to be taken insurance, for which a premium of three per cent. has been paid.

28. 1,000 bushels wheat, 600 bushels rye, 300 bushels corn, 500 oats, 20,000 lbs. pork, 4,500 lbs. butter, 2,000 lbs. cheese, 8,000 lbs. beef and mutton, 600 bushels potatoes, 800 lbs. tallow candles, 500 gallons sperm oil, \$1,300 in lumber, leather, coal, iron, &c.

29. Cannot state.

30. They could not manufacture at reduced prices. The market would at once be overstocked, and all would have to sell at a loss. A great number would have to stop. They would probably continue the business, in expectation that prices would eventually be better, as the domestic competition became less.

31. There is no way in which the capital invested in buildings and machinery could be employed. It would, as respects that, be a total loss.

32. They think any other business would be better after such reduction.

33. Any reduction would be a dangerous experiment. It would probably ruin nine-tenths of the manufacturers.

34. The legal rate of interest is seven per cent. Capital employed in mercantile and in other mechanical pursuits yields from ten to fifteen per cent.

35. Female wages are seventy-five cents per week; men, as laborers on farms, receive from eight to ten dollars per month; mechanics from ten to fourteen dollars per month.

## DOCUMENT 10.—No. 8.

*Manufacture of Cotton, situate in the town of Butternuts, in the County of Otsego, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                                                        | 1. Water power.                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 2. When established; and whether a joint stock concern?                                                                                                              | 2. In the year 1812; and is a joint stock.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3. Capital invested in ground and buildings, water power and machinery?                                                                                              | 3. Capital paid \$45,000.                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                                                         | 4. \$35,000.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                             | 6. Nothing borrowed.                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 7. What has been the rate of profits annually for the last three years. If a joint stock company, what dividends have been received?                                 | 7. About 12 per cent. dividend.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and therefore not annually divided? | 8. The capital has increased, from the \$45,000 paid in, to \$74,000, being \$29,000 invested in buildings and machinery, &c.                                                                                                                                                                                                                                                                                                                              |
| 9. Causes of the increase (or decrease) of profit at different periods of time.                                                                                      | 9. Many and various causes: the different prices at which the raw material has been sold, as also the manufactured goods, together with the difference of cost of manufacturing at different periods. Since the powerloom has come into use, the cost is much less than before. For many years, we paid from 6d to 12d for weaving goods made from yarn Nos. 16, 17 and 18; we now pay upon the power loom 66 cents per hundred yards, being 30. per yard. |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                               | 11. 525,000 yards brown goods, 28 inches wide—worth, at this time, 8½ cents.                                                                                                                                                                                                                                                                                                                                                                               |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                         | 12. 135,000 lbs. cotton, say 12 cents; 400 gallons sperm oil, 80 cents; 60 barrels flour, for starch, \$5; 30 sides belt leather, \$3.                                                                                                                                                                                                                                                                                                                     |
| 13. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                      | 13. Unknown.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 14. Number of men, women and children employed, and average wages of each class?                                                                                     | 14. About 90 in all.                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 15. How many hours a day employed, and what portion of the year?                                                                                                     | 15. From 20th September to 20th March, from sunrise to 8 o'clock P. M.; and from 20th March to 20th September, from sunrise to sunset.                                                                                                                                                                                                                                                                                                                     |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                | 16. No material difference, except the small or young help, who could not find employment in any other department.                                                                                                                                                                                                                                                                                                                                         |
| 17. Number of horses or other animals employed?                                                                                                                      | 17. 16 horses are constantly employed in teaming.                                                                                                                                                                                                                                                                                                                                                                                                          |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                              | 18. Four-fifths are sent to New York and Albany—from 90 to 230 miles distant.                                                                                                                                                                                                                                                                                                                                                                              |
| 20. Where are the manufactures consumed?                                                                                                                             | 20. I conclude that a great proportion are consumed in the United States.                                                                                                                                                                                                                                                                                                                                                                                  |



| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                                                                   | 21. A part of our goods have found a market in South America.                                                                                                                                                                                                                                                                            |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                 | 22. Sold for cash, or a credit from six to eight months.                                                                                                                                                                                                                                                                                 |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23, 24. Our goods have sold as high as 28 cents per yard, and they have sold as low as 6 cents per yard: I have purchased cotton at 30 cents, and as low as 9 cents per pound. No material difference in labor as to price. We manufacture the same quantity of goods now, which we have heretofore done, for about one-third the labor. |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                                                                     | 25. At the present rate of duty, the manufacturer can make, by industry and economy, a fair business, and nothing more—the hand labor receiving a fair compensation.                                                                                                                                                                     |
| 25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                             | 26. I know of none, not being sufficiently acquainted with the mode of such collections.                                                                                                                                                                                                                                                 |
| 26. Is any change necessary in levying or collecting duties on such articles to prevent fraud?                                                                                                                                                         | 27. There has been periods when the raw material and labor entirely excluded all profit; and it, at all times, depends upon the price of goods and the raw material—the state of the market. The last three years the profits have been about twelve per cent. per annum.                                                                |
| 27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                           | 28. 2,400 bushels grain; 400 cords wood; 100 barrels pork; 15,000 lbs. beef, with potatoes, beans, peas, &c. &c.                                                                                                                                                                                                                         |
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?                                                                                                        | 29. I have heretofore handed a statement to the members of the New York Convention. I observe that they report the whole amount in the United States at \$26,000,000.                                                                                                                                                                    |
| 29. What quantity or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?                                                                                                                        | 30. I know not what I should be induced to do. I know that I have manufactured at a loss, hoping for better times; but if the case should become hopeless, I should choose to abandon the business.                                                                                                                                      |
| 30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices?                                               | 31. Nine tenths of the capital would be entirely lost. Lost! Buildings and machinery, and the value in real estate, would be almost useless, as it is impossible to convert it into any other channel.                                                                                                                                   |
| 31. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                         | 32. I would endeavor to render my situation more tolerable, if possible, in some other business.                                                                                                                                                                                                                                         |
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent.?                                                                                         | 33. I know not. I am of the opinion that many locations would yield 6 per cent., whilst a very great proportion of our manufacturing establishments would make nothing, owing to the very great difference in the expense of living at the various sections of our country.                                                              |
| 33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent., and how gradual should the reduction be?                                                                              |                                                                                                                                                                                                                                                                                                                                          |

## DOCUMENT 10.—No. 8—Continued.

| QUESTIONS.                                             | ANSWERS.                                                                                                                                                                                                 |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 34. Average profit of money or capital in your county? | 34. In all business operations, it depends much upon the location, and the skill of those who manage. Merchandise, in this section, is perhaps equal to 14 per cent.; agriculture, from 4 to 6 per cent. |
| 35. Average rate of wages in your county?              | 35. Young men, laborers, get about \$10 per month.                                                                                                                                                       |

A. G. WASHBON.

March 19, 1831.

Mr. Washbon is a very respectable man, and is considered to have managed this establishment, of which he is a large joint proprietor, with uncommon skill and prudence.

J. A. DIX.

## DOCUMENT 10.—No. 9.

*Manufactory of Cotton, situate in the town of Brownville, in the County of Jefferson, in the State of New York, March, 1832.—Furnished by Proprietors.*

| QUESTIONS.                                                                                                                                                           | ANSWERS.                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                                                        | 1. Water power.                                                                                           |
| 2. When established; and whether a joint stock concern?                                                                                                              | 2. Joint stock concern; established in 1814; a total failure; re-established in 1826.                     |
| 3. Capital invested in ground and buildings, water power and machinery?                                                                                              | 3. About fifty thousand dollars.                                                                          |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                                                         | 4. From eighteen to twenty thousand dollars.                                                              |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory?                                                                         | 5. There has been but little profit realized.                                                             |
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                             | 6. Three thousand dollars, at 7 per cent.                                                                 |
| 7. What has been the rate of profits annually for the last three years: if a joint stock company, what dividends have been received?                                 | 7. No dividend.                                                                                           |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and therefore not annually divided? | 8. The whole.                                                                                             |
| 9. Causes of the increase (or decrease) of profit at different periods of time?                                                                                      | 9. Occasional stagnation of business.                                                                     |
| 10. Rates of profit on capital otherwise employed in the same county and State?                                                                                      | 10. We know of very little business that would justify the borrowing money at the legal rate of interest. |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description; quality, and value of each kind?                               | 11. Between two and three hundred thousand yards of sheeting and shirtings, worth from 8 to 10½ cents.    |

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                                                                                                           | 12. About eleven thousand dollars, principally domestic.                                                          |
| 14. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                       | 14. About 90; average of men's about \$1 per day; do. women do. \$2 per week; do. children do. 1 to \$2 per week. |
| 15. How many hours a day employed, and what portion of the year?                                                                                                                                                                                       | 15. Average 12 hours per day.                                                                                     |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                                                                                                  | 16. Mechanics about the same; women and children less than one-third.                                             |
| 17. Number of horses or other animals employed?                                                                                                                                                                                                        | 17. Average of twelve.                                                                                            |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                                                                                                | 18. About one-sixth at the factory; remainder sent to New York.                                                   |
| 20. Where are the manufactures consumed?                                                                                                                                                                                                               | 20. Principally in the United States.                                                                             |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                                                                   | 21. A portion are understood to be exported.                                                                      |
| 22. Whether the manufacture is sold by manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                     | 22. Usually from 6 to 8 months.                                                                                   |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23. No essential variation.                                                                                       |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                                                                     | 24. In 1828, '29, and '30, we suspended business: prices would not pay cost of production.                        |
| 27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                           | 27. Raw material about 3-8, labor, &c., more than 4-8, profits less than 1-8.                                     |
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?                                                                                                        | 28. Productions of the county about five thousand dollars.                                                        |
| 30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices?                                               | 30. It would probably compel us to abandon the business.                                                          |
| 31. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                         | 31. The capital being invested in buildings and machinery, would be unavailable for other purposes.               |
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent.?                                                                                         | 32. Most other kinds of business.                                                                                 |
| 33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent., and how gradual should the reduction be?                                                                              | 33. The business will not bear any reduction of duties, as the revenue laws are now enforced.                     |
| 34. Average profit of money or capital in your county?                                                                                                                                                                                                 | 34. Can't tell.                                                                                                   |
| 35. Average rate of wages in your county?                                                                                                                                                                                                              | 35. About \$18 per month.                                                                                         |

## DOCUMENT 10.—No. 10.

*The Jefferson Cotton Mills, situate in the town of Watertown, in the County of Jefferson, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                                                                                           | ANSWERS.                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                                                        | 1. By water power.                                                                                                              |
| 2. When established; and whether a joint stock concern?                                                                                                              | 2. A joint stock concern; commenced in 1827.                                                                                    |
| 3. Capital invested in ground and buildings, water power and machinery?                                                                                              | 3. About one hundred thousand dollars.                                                                                          |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                                                         | 4. About forty thousand dollars annually.                                                                                       |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory?                                                                         | 5. There has been but little profit realized thus far, the establishment being new, and gradually getting into operation.       |
| 7. What has been the rate of profits annually for the last three years:—if a joint stock company, what dividends have been received?                                 | 7. Profits very small, and no dividends made.                                                                                   |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and therefore not annually divided? | 8. The whole.                                                                                                                   |
| 9. Causes of the increase (or decrease) of profit at different periods of time?                                                                                      | 9. Excessive importations, frauds on the revenue, and occasional stagnation of business.                                        |
| 10. Rates of profit on capital otherwise employed in the same county and State?                                                                                      | 10. Such as would justify very few people in borrowing money at six per cent.                                                   |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                               | 11. Varying in amount every year. During the last year about 600,000 yards of shirtings and sheetings, worth 8 and 10½ cents.   |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                         | 12. About \$20,000 annually; chiefly of American products.                                                                      |
| 13. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                      | 13. Better answered in the sea-ports.                                                                                           |
| 14. Number of men, women and children employed, and average wages of each class?                                                                                     | 14. About 180 persons. Average of men's wages about \$1 per day; women's do. \$2 25 per week; children's do. 1 to \$2 per week. |
| 15. How many hours a day employed, and what portion of the year?                                                                                                     | 15. Average 12 hours per day.                                                                                                   |
| 16. Rates of wages of similar classes otherwise employed in the same State and county?                                                                               | 16. Men about three-fourths of the above rate; women and children not one-third.                                                |
| 17. Number of horses or other animals employed?                                                                                                                      | 17. An average of about twenty horses.                                                                                          |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                              | 18. About one-fifth at the manufactory; the residue are sent to New York and Albany, principally to New York.                   |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale; if so, to what extent?                                         | 19. It is believed that they do.                                                                                                |
| 20. Where are the manufactures consumed?                                                                                                                             | 20. Chiefly in the United States.                                                                                               |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                 | 21. A portion is exported to South America and elsewhere.                                                                       |
| 22. Whether the manufacture is sold by the manufacturer for cash? If, on credit, at what credit? If bartered, for what?                                              | 22. Usually at four, six, and eight months.                                                                                     |

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23. No material difference.                                                                                                                                                                                                                             |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                                                                     | 24. In 1829 and 1830, at 7 and 9 cents—a ruinous business.                                                                                                                                                                                              |
| 25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                             | 25 and 26. Refer to manufacturers more familiar with the revenue laws.<br>We are of opinion, that the substitution of ad valorem for minimum duties would greatly facilitate the evasion of the revenue laws, and increase the frauds upon the revenue. |
| 26. Is any change necessary in levying or collecting duties on such articles to prevent fraud?                                                                                                                                                         | 27. Raw material about $\frac{1}{2}$ ; labor about $\frac{1}{2}$ ; profits, without reference to wear and tear, insurance, &c., about $\frac{1}{2}$ .                                                                                                   |
| 27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                           | 28. Of agricultural productions of this county, not less than \$10,000; of other domestic productions, about 15,000 to \$18,000.                                                                                                                        |
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?                                                                                                        | 30. It would probably compel an abandonment.                                                                                                                                                                                                            |
| 30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12 $\frac{1}{2}$ per cent, would it cause you to abandon your business, or would you manufacture at reduced prices?                                   | 31. The capital being invested in buildings and machinery, would be nearly a total loss, and unavailable for other purposes.<br>32. Almost any other business.                                                                                          |
| 31. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                         | 33. We find that, under the existing duties, as the revenue laws are now enforced, the profits of our business are less than the legal interest of the capital employed.                                                                                |
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12 $\frac{1}{2}$ per cent.?                                                                            | 34. Hard to tell.                                                                                                                                                                                                                                       |
| 33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent., and how gradual should the reduction be?                                                                              |                                                                                                                                                                                                                                                         |
| 34. Average profit of money or capital in your county?                                                                                                                                                                                                 |                                                                                                                                                                                                                                                         |

WATERTOWN, JEFFERSON COUNTY, NEW YORK, March 12, 1832.

LEVI BEEBEE & Co.

Mr. Beebee is well known in this State as an enterprising, intelligent, and honorable man; worthy, in all respects, of entire confidence.

J. A. DIX.

DOCUMENT 10.—No. 11.

*Manufacture of the Farmers and Mechanics' Manufacturing Company, situate in the town of New Berlin, in the County of Chenango, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                                                                                                                                            | ANSWERS.                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                                                                                                         | 1. Water power.                                                                                                                                                                                                             |
| 2. When established; and whether a joint stock concern?                                                                                                                                                               | 2. 1812, and joint stock.                                                                                                                                                                                                   |
| 3. Capital invested in ground and buildings, water power and machinery?                                                                                                                                               | 3. About \$70,000.                                                                                                                                                                                                          |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                                                                                                          | 4. The whole nearly \$50,000.                                                                                                                                                                                               |
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                                                                              | 6. None.                                                                                                                                                                                                                    |
| 7. What has been the rate of profits annually for the last three years: if a joint stock company, what dividends have been received?                                                                                  | 7. Average about 7 per cent. per annum.                                                                                                                                                                                     |
| 9. Causes of the increase (or decrease) of profit at different periods of time?                                                                                                                                       | 9. Rise of cotton and fall of goods is enough.                                                                                                                                                                              |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                                                                          | 12. Made an estimate of amount of cotton used in one-third of the year 1831, and the proportion for this would produce an annual consumption of some 240,000 pounds, which, at its present value, would be nearly \$30,000. |
| 14. Number of men, women and children employed, and average wages of each class?                                                                                                                                      | 14. About 150 hands.                                                                                                                                                                                                        |
| 15. How many hours a day employed, and what portion of the year?                                                                                                                                                      | 15. About 12 hours on an average for the year.                                                                                                                                                                              |
| 17. Number of horses or other animals employed?                                                                                                                                                                       | 17. Seven to eight horses.                                                                                                                                                                                                  |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                                                               | 18. Mostly sent to New York.                                                                                                                                                                                                |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                | 22. Generally at six to eight months' credit.                                                                                                                                                                               |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                                    | 24. Brown $\frac{3}{4}$ shirtings have varied from 36 cents down to 6 cents per yard.                                                                                                                                       |
| 25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                            | 25. The present rate, at least.                                                                                                                                                                                             |
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?                                                                       | 28. 1,000 bushels of wheat, 4,000 bushels of coarse grain, 25 to 30,000 pounds pork, besides beef, butter, cheese, &c., 1,000 cords of wood.                                                                                |
| 30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12 $\frac{1}{2}$ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices? | 30. Should conceive that such a reduction would enable foreigners to glut the market at such prices as would force us to abandon business.                                                                                  |
| 31. If it would cause you to abandon your business, in what way you would employ your capital?                                                                                                                        | 31. The capital of the company, \$75,000, would, in fact, be almost entirely invested in machinery and fast property, to the amount of the above \$70,000, and, therefore, would cause entire destruction.                  |

## DOCUMENT 10.—No. 11—Continued.

| QUESTIONS.                                                                                                                                                     | ANSWERS.                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent.? | 32. In case of such reduction, and consequent prostration of business, we should have no capital to invest. |
| 34. Average profit of money or capital in your county?                                                                                                         | 34. Probably seven to ten per cent.                                                                         |

I think the answers to the above queries are substantially correct.

JOSEPH MOSS, *Agent*.

Mr. Moss is a highly respectable man, and the establishment under his care is considered remarkably well managed.

J. A. DIX.

## DOCUMENT 10.—No. 12.

*Manufactory of Reed & Watson, situate in the town of Livingston, in the County of Columbia, in the State of New York, March, 1832.—Furnished by the proprietors.*

| QUESTIONS.                                                                                                                                                           | ANSWERS.                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                                                        | 1. Water.                                                                                                                                                   |
| 2. When established; and whether a joint stock concern?                                                                                                              | 2. Established in 1828, and a joint stock concern.                                                                                                          |
| 3. Capital invested in ground and buildings, water power and machinery?                                                                                              | 3. Eighteen thousand dollars.                                                                                                                               |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                                                         | 4. Two hundred and sixty-five dollars per week.                                                                                                             |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory?                                                                         | 5. Ten per cent.                                                                                                                                            |
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                             | 6. Seven thousand dollars borrowed, at seven per cent.                                                                                                      |
| 7. What has been the rate of profits annually for the last three years: if a joint stock company, what dividends have been received?                                 | 7. Average ten per cent.; no dividends.                                                                                                                     |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and therefore not annually divided? | 8. All in fixed capital.                                                                                                                                    |
| 9. Causes of the increase (or decrease) of profit at different periods of time?                                                                                      | 9. Don't know.                                                                                                                                              |
| 10. Rates of profit on capital otherwise employed in the same county and State?                                                                                      | 10. None otherwise employed.                                                                                                                                |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                               | 11. Eighty-eight thousand four hundred pounds of cotton yarn and cotton batts; yarn from 5 to 10, value from 16 to 23 cts.; batts, value from 7 to 9 cents. |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                         | 12. One hundred and four thousand pounds of cotton. No foreign articles.                                                                                    |

DOCUMENT 10.—No. 12—Continued.

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                        | 13. Don't know.                                                                                                                                                                                                                                                                                                               |
| 14. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                       | 14. Three men at 7s. per day, eleven women at 13s. per week, seventeen children at 9s. per week.                                                                                                                                                                                                                              |
| 15. How many hours a day employed, and what portion of the year?                                                                                                                                                                                       | 15. Twelve hours per day the whole year.                                                                                                                                                                                                                                                                                      |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                                                                                                  | 16. Men 5s. per day, women 6s. per week, children very few otherwise employed.                                                                                                                                                                                                                                                |
| 17. Number of horses or other animals employed?                                                                                                                                                                                                        | 17. Two horses.                                                                                                                                                                                                                                                                                                               |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                                                                                                | 18. Sent to New York.                                                                                                                                                                                                                                                                                                         |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale? And to what extent?                                                                                                                              | 19. Don't know.                                                                                                                                                                                                                                                                                                               |
| 20. Where are the manufactures consumed?                                                                                                                                                                                                               | 20. All over the country.                                                                                                                                                                                                                                                                                                     |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                                                                   | 21. Don't know of any.                                                                                                                                                                                                                                                                                                        |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                 | 22. Sold for cash, and four months' credit.                                                                                                                                                                                                                                                                                   |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23. The cost of the article has varied, both increasing and decreasing. Don't know how much in each year.                                                                                                                                                                                                                     |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                                                                     | 24. Cotton batts from 7 to 9 cents; cotton yarn from 16 to 23 cents.                                                                                                                                                                                                                                                          |
| 25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                             | 25. Same we have now.                                                                                                                                                                                                                                                                                                         |
| 26. Is any change necessary in levying or collecting duties on such articles to prevent fraud?                                                                                                                                                         | 26. None.                                                                                                                                                                                                                                                                                                                     |
| 27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                           | 27. Raw material 11-17, wages 5-17, capital 1-17.                                                                                                                                                                                                                                                                             |
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?                                                                                                        | 28. Agricultural productions of the county \$1,000 per year, other domestic productions \$1,000 per year.                                                                                                                                                                                                                     |
| 29. What quantity or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?                                                                                                                        | 29. Don't know.                                                                                                                                                                                                                                                                                                               |
| 30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices?                                               | 30. There is no duty upon articles of this kind, but if the present protecting duties were reduced to 12½ per cent., it would cause other manufacturers to stop their looms and engage in the manufacture of this kind of goods, and thereby destroy the business; and we should abandon our machinery, &c., as a total loss. |



## DOCUMENT 10.—No. 12—Continued.

| QUESTIONS.                                                                                                                                                                | ANSWERS.            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 31. If it would cause you to abandon your business, in what way would you employ your capital?                                                                            | 31. Don't know.     |
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent.?            | 32. Yes.            |
| 33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent., and how gradual should the reduction be? | 33. Don't know.     |
| 34. Average profit of money or capital in your county?                                                                                                                    | 34. Seven per cent. |
| 35. Average rate of wages in your county?                                                                                                                                 | 35. Don't know.     |

## DOCUMENT 10.—No. 13.

*Cotton Manufactory of James Wild, situate in the town of Hudson, in the County of Columbia, in the State of New York, March, 1832.—Furnished by the Proprietor.*

| QUESTIONS.                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                                                        | 1. By water power.                                                                                                                                                                                                       |
| 2. When established; and whether a joint stock concern?                                                                                                              | 2. Established in 1824–5. Owned by the late firm of James Wild & Co.; now in the possession of James Wild, and worked on his account.                                                                                    |
| 3. Capital invested in ground and buildings, water power and machinery?                                                                                              | 3. About \$40,000.                                                                                                                                                                                                       |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                                                         | 4. About \$40,000.                                                                                                                                                                                                       |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory?                                                                         | 5. There has been no dividend since the factory was erected. The profits will not pay the less by floods and breaking up of ice, and depreciation in consequence of improvements in machinery made since this was built. |
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                             | 6. None.                                                                                                                                                                                                                 |
| 7. What has been the rate of profits annually for the last three years? If a joint stock company, what dividends have been received?                                 | 7. There have been no dividends.                                                                                                                                                                                         |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and therefore not annually divided? | 8. There has been nothing to divide, nor any portion added to the fixed capital.                                                                                                                                         |
| 9. Causes of the increase (or decrease) of profit at different periods of time?                                                                                      | 9. The cloth made at this factory is fine yard wide shirting. In 1826 it brought 28 cents per yard; it has brought less every year since: it is not down to 15½ cents.                                                   |

DOCUMENT 10.—No. 13—Continued.

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10. Rates of profit on capital otherwise employed in the same county and State?                                                                                                                                                                        | 10. Do not know.                                                                                                                                                                                                  |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                 | 11. About 8,000 pieces fine shirtings, of 33 yards each.                                                                                                                                                          |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                                                                                                           | 12. Answered in question No. 4.                                                                                                                                                                                   |
| 13. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                        | 13. Don't know.                                                                                                                                                                                                   |
| 14. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                      | 14. 17 men, average \$7 50; 52 women, average \$2 50; 12 girls, average \$2 00; 36 boys and girls from 10 to 15, average \$1 75.                                                                                  |
| 15. How many hours a day employed, and what portion of the year?                                                                                                                                                                                       | 15. Twelve hours in summer, 10½ hours in winter.                                                                                                                                                                  |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                                                                                                  | 16. Don't know.                                                                                                                                                                                                   |
| 17. Number of horses and other animals employed?                                                                                                                                                                                                       | 17. Two horses and one yoke of oxen.                                                                                                                                                                              |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                                                                                                | 18. Cloth is sold in New York and Philadelphia.                                                                                                                                                                   |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?                                                                                                                              | 19. They do, to a considerable extent.                                                                                                                                                                            |
| 20. Where are the manufactures consumed?                                                                                                                                                                                                               | 20. Principally in the United States.                                                                                                                                                                             |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                                                                   | 21. I have been told by my agents that they have made a few sales to go to S. America.                                                                                                                            |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                 | 22. My goods are sold by commission merchants in New York and Philadelphia, on a credit of six and eight months.                                                                                                  |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23. The cost at this factory has varied with price of cotton. Those factories that have taken out their old machinery, and have introduced the most modern, produce their goods from 6 to 10 per cent. less cost. |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                                                                     | 24. From 28 cents in 1826, down to 15½ in 1832.                                                                                                                                                                   |
| 25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                             | 25. Not less than the present rate.                                                                                                                                                                               |
| 26. Is any change necessary in levying or collecting duties on such articles to prevent fraud?                                                                                                                                                         | 26. The duty would be better protection if it was levied in cash.                                                                                                                                                 |
| 27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                           | 27. About ¼ in cotton, ½ in wages, ¼ in oil, coal, wood, leather, &c., and ¼ wear and tear. No profits at the present price of fine cloth.                                                                        |
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?                                                                                                        | 28. There are about 370 persons depend on the factory for support. The provisions consumed are mostly raised in the county, with the exception of groceries.                                                      |

## DOCUMENT 10.—No. 13—Continued.

| QUESTIONS.                                                                                                                                                                                               | ANSWERS.                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 29. What quantity or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?                                                                          | 29 I do not know.                                                                                                                                               |
| 30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices? | 30. If the duty was reduced to 12½ per cent. I should have to stop, and sacrifice the property.                                                                 |
| 31. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                           | 31. I do not know.                                                                                                                                              |
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent.?                                           | 32. I am not acquainted with any other business.                                                                                                                |
| 33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent., and how gradual should the reduction be?                              | 33. At the present duty, I cannot make six per cent., allowing for wear and tear, and keeping up with the improvements that are constantly making in machinery. |
| 34. Average profit of money or capital in your county?                                                                                                                                                   | 34. Interest of money is seven per cent.                                                                                                                        |
| 35. Average rate of wages in your county?                                                                                                                                                                | 35. Average rate of wages in this county from 75 cents to \$1 50.                                                                                               |

## DOCUMENT 10.—No. 14.

*Cotton Manufactory of the Columbia Manufacturing Society, situate in the town of Stuyvesant, in the County of Columbia, in the State of New York, March, 1832.—Answers furnished by the agent of the Society.*

| QUESTIONS.                                                                                                                                                           | ANSWERS.                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                                                        | 1. Water.                                                        |
| 2. When established; and whether a joint stock concern?                                                                                                              | 2. Chartered in 1809. Capital \$200,000. Amount paid \$160,000.  |
| 3. Capital invested in ground and buildings, water power and machinery?                                                                                              | 3. Capital invested \$160,000.                                   |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                                                         | 4. About 30,000.                                                 |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory?                                                                         | 5. The amount of capital invested has not netted seven per cent. |
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                             | 6. None.                                                         |
| 7. What has been the rate of profits annually for the last three years? If a joint stock company, what dividends have been received?                                 | 7. Answered in No. 5.                                            |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and therefore not annually divided? | 8. Probably one-half.                                            |

## DOCUMENT 10.—No. 14—Continued.

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9. Causes of the increase (or decrease) of profit at different periods of time?                                                                                                                                                                        | 9. The article made is fine sheeting, 4-4 wide. In 1826 it sold at 28 cents per yard; it has declined gradually to the present time, and is now worth 15½ cents per yard.        |
| 10. Rates of profit on capital otherwise employed in the same county and State?                                                                                                                                                                        | 10. Cannot say.                                                                                                                                                                  |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                 | 11. About 6,000 pieces, of 33 yards each.                                                                                                                                        |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                                                                                                           | 12. Answered in No. 4.                                                                                                                                                           |
| 13. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                        | 13. Do not know.                                                                                                                                                                 |
| 14. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                      | 14. Twelve men, average \$7.50 per week; thirty-three women, average \$2.50 per week; eight girls, \$2 per week; 24 boys and girls, from 9 to 16, average about \$1.75 per week. |
| 15. How many hours a day employed, and what portion of the year?                                                                                                                                                                                       | 15. Twelve hours in summer; 10½ hours in winter.                                                                                                                                 |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                                                                                                  | 16. Cannot say.                                                                                                                                                                  |
| 17. Number of horses or other animals employed?                                                                                                                                                                                                        | 17. Three horses.                                                                                                                                                                |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                                                                                                | 18. Sold in New York and Philadelphia.                                                                                                                                           |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?                                                                                                                              | 19. They do to some extent.                                                                                                                                                      |
| 20. Where are the manufactures consumed?                                                                                                                                                                                                               | 20. Principally in the United States.                                                                                                                                            |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                                                                   | 21. Have been informed that small shipments have been made to South America.                                                                                                     |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                 | 22. The goods are sold by commission merchants in New York and Philadelphia on a credit of six to eight months.                                                                  |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23. The cost of the article now varies with the price of cotton.                                                                                                                 |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                                                                     | 24. From 28 cents in 1826, to 15½ cents in 1832.                                                                                                                                 |
| 25. What rate of duty is necessary to enable the manufacturer to enter into competition, in the home market, with similar articles imported?                                                                                                           | 25. Should think not less than the present duty.                                                                                                                                 |
| 27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                           | 27. About ¼ in cotton, ½ in wages, ¼ in oil, coal, wood, &c., ¼ wear and tear. No profit at the present price of cloth.                                                          |
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?                                                                                                        | 28. There are about 250 persons dependent upon the establishment for their support. The provisions are principally raised in the county, with the exception of tea, coffee, &c.  |

## DOCUMENT 10.—No. 14—Continued.

| QUESTIONS.                                                                                                                                                                                                | ANSWERS.                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 29. What quantity or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?                                                                           | 29. Cannot say.                                                                                                                |
| 30. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices? | 30. If the duty should be reduced to 12½ per cent., should think the foreign article would drive the home one from the market. |
| 31. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                            | 31. Do not know.                                                                                                               |
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent.?                                            | 32. Should think there was.                                                                                                    |
| 34. Average profit of money or capital in your county?                                                                                                                                                    | 34. Cannot say.                                                                                                                |
| 35. Average rate of wages in your county?                                                                                                                                                                 | 35. Wages from 75 cents to \$1.50 per day.                                                                                     |

## DOCUMENT 10.—No. 15.

*Manufactory of Joseph and Benjamin Marshall, situate in the City of Hudson, in the County of Columbia, in the State of New York, March, 1832.—Furnished by the Proprietors.*

| QUESTIONS.                                                                                                                                                             | ANSWERS.                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                                                          | 1. Water.                                                                                                                                                      |
| 2. When established; and whether a joint stock concern?                                                                                                                | 2. Established five years. Private property.                                                                                                                   |
| 3. Capital invested in ground and building, water power, and machinery?                                                                                                | 3. Three hundred thousand dollars.                                                                                                                             |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory?                                                                           | 5. No profit, having had two fires and one flood, which took off the whole of the profits.                                                                     |
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                               | 6. None.                                                                                                                                                       |
| 7. What has been the rate of profits annually for the last three years? If a joint stock company, what dividends have been received?                                   | 7. None.                                                                                                                                                       |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and, therefore, not annually divided? | 8. None divided.                                                                                                                                               |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                 | 11. One hundred and fifty thousand pieces of calicoes per annum, 30 yards each, and value four dollars each upon an average.                                   |
| 14. Number of men, women, and children employed, and average wages of each class?                                                                                      | 14. One hundred men, at six dollars per week. One hundred women and boys, at two and a half dollars per week. Fifty men, at seven and a half dollars per week. |

## DOCUMENT 10.—No. 15—Continued.

| QUESTIONS.                                                                                                                                                                                                | ANSWERS.                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15. How many hours a day employed, and what portion of the year?                                                                                                                                          | 15. In summer, from seven in the morning until twelve at noon, and from one until six in the evening. In winter, from half past seven until twelve, and from one until five at night. |
| 17. Number of horses or other animals employed?                                                                                                                                                           | 17. Fourteen horses and six oxen.                                                                                                                                                     |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                                                   | 18. In New York.                                                                                                                                                                      |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale?                                                                                                     | 19. Those from England.                                                                                                                                                               |
| 20. Where are the manufactures consumed?                                                                                                                                                                  | 20. All over the States.                                                                                                                                                              |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                      | 21. None.                                                                                                                                                                             |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                    | 23. Sold at six months, and some few at eight months. Cash.                                                                                                                           |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                        | 24. Twenty per cent. higher five years since.                                                                                                                                         |
| 25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                | 25. The same as we now have.                                                                                                                                                          |
| 26. Is any change necessary in levying or collecting duties on such articles to prevent fraud?                                                                                                            | 26. None.                                                                                                                                                                             |
| 27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                              | 27. 5-8th cloth; 2-8th labor; 1-8th drugs.                                                                                                                                            |
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?                                                           | 28. Fuel, \$12,000 per annum; flour, 100 barrels; starch from flour and potatoes, 200 barrels; bran, 5,000 bushels; drugs made in the county, \$20,000.                               |
| 29. What quantity or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?                                                                           | 29. Cannot answer.                                                                                                                                                                    |
| 30. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices? | 30. Must give up the concern, as wages in England are one-half less, except wages could be reduced here to the same as in England.                                                    |
| 31. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                            | 31. Abandon the concern, and lose our capital.                                                                                                                                        |
| 33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent., and how gradual should the reduction be?                                 | 33. It does not yet yield six per cent. per annum profit.                                                                                                                             |
| 34. Average profit of money or capital in your county?                                                                                                                                                    | 34. Six per cent.                                                                                                                                                                     |
| 35. Average rate of wages in your county?                                                                                                                                                                 | 35. Seventy-five cents per day.                                                                                                                                                       |

## DOCUMENT 10.—No. 16.

*Manufactory of Cotton Goods, situate in the town of Sangerfield, in the County of Oneida, in the State of New York, March, 1832.—Furnished by the Agent.*

| QUESTIONS.                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                                                        | 1. Water power alone.                                                                                                                                                                                                        |
| 2. When established; and whether a joint stock concern?                                                                                                              | 2. This is an incorporate company, established in 1814.                                                                                                                                                                      |
| 3. Capital invested in ground and buildings, water power and machinery?                                                                                              | 3. There has been invested since the establishment was incorporated, in 1814, say forty thousand dollars.                                                                                                                    |
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                             | 6. Two thousand dollars, paying an interest of seven per cent.                                                                                                                                                               |
| 7. What has been the rate of profits annually for the last three years? If a joint stock company, what dividends have been received?                                 | 7. We have not declared any dividend for the last three years. The net profits of the establishment for the last three years have been not more than nine per cent. on the forty thousand dollars invested.                  |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and therefore not annually divided? | 8. The whole income of the company for the last three years have been applied to pay for machinery, and for cotton and manufactured goods on hand.                                                                           |
| 9. Causes of the increase (or decrease) of profit at different periods of time?                                                                                      | 9. We obtain labor for a much less price than previous to 1828, and the improvement in machinery enables us to manufacture at less prices.                                                                                   |
| 10. Rates of profit on capital otherwise employed in the same county and State?                                                                                      | 10. We hardly know of any business in this county that pays a less profit on the investment, where the same economy is pursued, than that of manufacturing cotton goods for the last three years.                            |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                               | 11. It is impossible for us to give any statement of the proceedings of this company previous to 1828, the establishment having changed hands in 1828. The original stockholders suffering 75 per cent. on their investment. |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                         | 12. We have used annually for the last three years, say 50,000 lbs. of cotton, at an average cost of 1½ cents, \$6,250; 300 galls. of oil at 8 shillings, \$300; and wood, glue, &c., worth \$200.                           |
| 14. Number of men, women, and children, employed, and average wages of each class?                                                                                   | 14. Five men, the average wages \$1 per day; and about forty females and boys, at an average price of \$1 50 per week, they boarding themselves.                                                                             |
| 15. How many hours a day employed, and what portion of the year?                                                                                                     | 15. We work 12 hours in the day, and 310 days in the year. We generally have three holidays.                                                                                                                                 |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                | 16. The men obtain one-fourth more wages, generally, and the other hands one-half more, than an average of wages at any other business that they could get employment at.                                                    |
| 17. Number of horses or other animals employed?                                                                                                                      | 17. We pay for freight and transportation, annually, \$400 at least, either by canal or wagons.                                                                                                                              |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                              | 18. Three-fourths of our goods are sold in the city of New York; the balance sold at the mill.                                                                                                                               |

## DOCUMENT 10.—No. 16—Continued.

| QUESTIONS.                                                                                                                                                                                               | ANSWERS.                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                   | 22. The goods sold in New York are sold on a credit of six and eight months.                                                                                                                                                |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                       | 24. Our average sales for the last three years have been at about 7½ cents per yard.                                                                                                                                        |
| 27. What portion of the cost of your manufacture consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                              | 27. The costs of raw material, say 3 cents per yard; labor and contingent expenses, 3 cents.                                                                                                                                |
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?                                                          | 28. Nearly seven-eighths of the amount of labor is paid in the common products of the county—flour, pork, corn, beef, &c.; what is not paid of the seven-eighths in provisions, is paid mostly in domestic wearing apparel. |
| 30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices? | 30. Our business would not pay a fair profit with a reduction: still we might continue to manufacture, until our machinery wore out.                                                                                        |
| 31. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                           | 31. Should we be compelled to stop manufacturing, we could not convert our property into available funds, without incurring a loss of 75 cents on the dollar.                                                               |
| 34. Average profit of money or capital in your county?                                                                                                                                                   | 34. Seven per cent.                                                                                                                                                                                                         |
| 35. Average rate of wages in your county?                                                                                                                                                                | 35. Good able-bodied young men's wages are \$10 per month for eight months in twelve; but children's wages are not worth anything, but to make cotton goods.                                                                |

## DOCUMENT 10.—No. 17.

*Manufactory of Oneida Manufacturing Society, situate in the town of Whites town, in the County of Oneida, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                   | ANSWERS.                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                | 1. Water is the principal power, but steam is used to assist when there is not a sufficiency of water.                                                                                                                                                                      |
| 2. When established; and whether a joint stock concern?                                      | 2. Established in 1809. Destroyed by fire in 1829. Rebuilt in 1829 and 1830. A joint stock concern.                                                                                                                                                                         |
| 3. Capital invested in ground and buildings, water power and machinery?                      | 3. About one hundred thousand dollars.                                                                                                                                                                                                                                      |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory? | 5. The dividends since 1815 to the present time, have not amounted to more than five per cent. on the amount of capital stock. If we include the loss by fire in 1829, it will not amount to more than three per cent. per annum from the establishment of the manufactory. |



## QUESTIONS.

6. How much of the capital is borrowed, and what interest is paid on it?

7. What has been the rate of profits annually for the last three years? If a joint stock company, what dividends have been received?

8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and, therefore, not annually divided?

9. Causes of the increase (or decrease) of profit at different periods of time?

10. Rates of profit on capital otherwise employed in the same county and State?

11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?

12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?

13. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?

14. Number of men, women, and children employed, and average wages of each class?

15. How many hours a day employed, and what portion of the year?

16. Rate of wages of similar classes otherwise employed in the same State and county?

17. Number of horses or other animals employed?

18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?

19. Whether foreign articles of the like kind enter into competition with them at such place of sale?

20. Where are the manufactures consumed?

## ANSWERS.

6. No part of the capital is borrowed.

7. Within the last three years, the whole establishment has been built new, the old mill being destroyed by fire in 1829; since which time we have made two semi-annual dividends, the last year of \$3,000 each, which is about four per cent. half-yearly on the amount of capital.

8. About the whole net profits have been divided.

9. The low price of goods, owing to home competition, has caused a constant decrease in the profits.

10. To this question I cannot give any reasonable answer

11. We are now using 800 bales, 267,000 lbs. of prime Alabama and Georgia cotton, at 11½ cts. per lb., \$30,722  
10,500 lbs. of starch, at 7½ cts. per lb. 787  
1,500 gallons sperm oil, at 80 cts. per gallon, 1,200  
Wood, leather, iron, steel, coal, lumber, and other materials, say 8,000

Annually \$40,709

12. We manufacture about one million yards of 3-4 cotton shirting, and 4-4 shirtings per year, from yarn No. 16.

13. I do not think there is any goods of the description of ours imported into this country at the present time; if any, the quantity is very small.

14. Say 20 men in various departments, in the manufactory and machine shop, at an average of 10s. per day. 90 young women, average, exclusive of board, \$1 per week; including board, \$2 per week. 80 children, from 6s. per week to 14s. per week, exclusive of board.

15. Twelve hours per day through the year.

16. I think we pay rather higher wages than is paid to the same class of persons otherwise employed.

17. We have none that are employed constantly in our business.

18. A part of the goods, say one-third, are sold in this section of country for home use. The remainder are sent to New York for a market.

19. I know of no foreign article that enters directly into competition with our goods; but indirectly calico and other printed and colored goods do.

20. The goods we manufacture are principally consumed in the county for shirtings and sheetings; some of them, however, are printed.

DOCUMENT 10.—No. 17—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                    | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>21. Whether any of the manufactures are exported to foreign countries? If so, where?</p>                                                                                                                                                                   | <p>21. Large quantities of coarse cotton shirtings and sheetings are exported to South America, and lately some shipments have been made to Calcutta and other ports beyond the Cape of Good Hope, and up the Mediterranean.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p>22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?</p>                                                                                                                                 | <p>22. Our sales at home are principally for cash, or on short credit. When sold in New York, a credit of eight months is allowed.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p>23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?</p> | <p>23. There has been a constant decrease in the price of the manufactured article since 1810, nearly according to the annexed table to question 24. I attribute the cause of the decrease in prices, first, to improvement in, and increase of labor-saving machinery, the cost of the raw material, the price of labor, the cost of machinery, &amp;c., and home competition.</p>                                                                                                                                                                                                                                                                                                                                                                  |
| <p>24. The prices at which the manufacture has been sold by the manufacturer since the establishment?</p>                                                                                                                                                     | <p>24. Our goods will probably not average, as cash, over seven cents the coming year. It will be observed that our goods are stout and heavy, and not surpassed by any goods of the kind in market.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                               | <p><i>Price of 3-4 cotton sheetings per yard from 1812 to 1832.</i></p> <p>1812, 28 cts.; 1813, 28-29 cts.; 1814, 30-32 cts.; 1815, 28-30 cts.; 1816, 26 28 cts.; 1817, 24-27 cts.; 1818, 24 cts.; 1819, 24-16 cts.; 1820, 16-14 cts.; 1821, 14-12 cts.; 1822, 12-11 cts.; 1823, 11-10 cts.; 1824, 11-10 cts.; 1825, 11-10 cts.; 1826, 10 cts.; 1827, 10-9 cts.; 1828, 9 cts.; 1829, 6½ cts.; 1830, 6½-7½ cts.; 1831, 8½ cts.; 1832, 8 cts.</p>                                                                                                                                                                                                                                                                                                      |
| <p>25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?</p>                                                                                                             | <p>25. I have no doubt but we can make most articles of coarse cotton goods, of the same quality and weight of stock, nearly as cheap as they can be made in any country. It is a well-known fact, that the description of cotton we use never enters into a similar fabric made in England; but all the coarse cotton goods are made of the most inferior American cottons, cotton waste, Surat, and Bengal cottons. With such stock, a similar article to ours can be made for at least 1½ cent. per yard cheaper than we can make the same article of prime upland and Louisiana cottons as we do. I cannot say what import duty would be necessary to enable us to enter into competition with the foreign article under such circumstances.</p> |

| QUESTIONS.                                                                                                                                                                                                       | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>26. Is any change necessary in levying or collecting duties on such articles, to prevent fraud?</p>                                                                                                           | <p>26. I know of none.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?</p>                              | <p>27. I estimate the cost of the raw material, at - - - 45 per ct.<br/> Cost of the labor - - - 30 "<br/> Natural wear and tear (including new improvement) in machinery 15 "<br/> Interest on capital invested - 10 "<br/> 100 "</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <p>29. What quantity or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?</p>                                                                           | <p>The present year will not produce the above results, as goods are very much fallen off in price, and cotton advancing.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <p>30. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices?</p> | <p>29. I have not the data at hand to enable me to answer this question. (See report of the Tariff Convention Committee on Cotton Manufactures)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p>31. If it would cause you to abandon your business, in what way would you employ your capital?</p>                                                                                                            | <p>30, 31, 32. I do believe that if the import duty was reduced to 12½ per cent., our country would be flooded with the inferior fabric of Britain, made from cheap foreign cotton, to such an extent as to cause us to entirely abandon our business. We could not make the article we are now making from prime Georgia and Alabama cotton, as cheap, by 1½ cent per yard, as the British article made of cheap foreign cotton: while the appearance of the British article would nearly equal ours, its intrinsic worth would not be one-half. Besides, our printing establishments would be furnished with this same cheap article, and thus displace the more durable and substantial goods made from the product of our own soil, and the labor of our own countrymen. The labor and capital of our country, by the adoption of such a policy, would be so paralyzed and distracted, that it would be next to impossible to foresee the result, or to give any opinion as to the profits arising from any business.</p> |
| <p>32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent.?</p>                                            | <p>33. I cannot say what reduction of the present import duties would enable the British manufacturer to bring a similar article into our market. But the fact is, that a little foreign or domestic competition would reduce our business to a less profit than 6 per cent., or even to an actual loss, as was the fact in 1829. To the printing establishment of our country we are indebted for the degree of prosperity we have enjoyed for the last two years. I do think if our market were not relieved by printing the grey cloth, some of our manufactories of this article would be under the necessity of stopping or working without a profit.</p>                                                                                                                                                                                                                                                                                                                                                                |
| <p>33. What amount of reduction in the duties would enable the actual or real capital employed, to yield an interest of 6 per cent., and how gradual should the reduction be?</p>                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## DOCUMENT 10.—No. 17—Continued.

| QUESTIONS.                                | ANSWERS.                                                               |
|-------------------------------------------|------------------------------------------------------------------------|
| 33. Average rate of wages in your county? | 35. Common laborers, 6s. per day. Mechanics, from 8s. to 12s. per day. |

The above statement is made in anticipation of what we shall produce when the whole of our machinery is in operation, which will be in the course of the present spring.

WM. WALCOTT,

*Agent for Oneida Manufacturing Society.*

WHITESTOWN, March 20, 1832.

Mr. Walcott is a very intelligent manufacturer, and in all respects worthy of credit.

J. A. DIX.

## DOCUMENT 10.—No. 18.

*Oneida Cotton Factory, situate in the town of New Hartford, in the County of Oneida, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                                                        | 1. Water power.                                                                                                                                                                                                            |
| 2. When established; and whether a joint stock concern?                                                                                                              | 2. 1814. Is a joint stock company.                                                                                                                                                                                         |
| 3. Capital invested in ground and buildings, water power and machinery?                                                                                              | 3. Seventy thousand dollars.                                                                                                                                                                                               |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                                                         | 4. Yearly expenses for materials \$6000, and \$16,000 for labor of workmen.                                                                                                                                                |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory?                                                                         | 5. For the first seven years, the factory was an expense to the company, being still most of the time: since which some years may have produced on the capital 3, 4, 5, and 6 per cent.                                    |
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                             | 6. Ten thousand dollars is borrowed at the rate of 7 per cent.                                                                                                                                                             |
| 7. What has been the rate of profits annually for the last three years? If a joint stock company, what dividends have been received?                                 | 7. 1829 and 1830 resulted in a loss; 1831 produced a profit of 10 per cent.; no dividends have been made.                                                                                                                  |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and therefore not annually divided? | 8. All the earnings of the company have been converted into capital.                                                                                                                                                       |
| 9. Causes of the increase (or decrease) of profit at different periods of time?                                                                                      | 9. Variation in the price of goods.                                                                                                                                                                                        |
| 10. Rates of profit on capital otherwise employed in the same county and State?                                                                                      | 10. Unknown.                                                                                                                                                                                                               |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                               | 11. \$455,867 35 of goods have been made since its commencement, principally 3-4 and 4-4 goods, No. 16; 6-4 tickings; prices of shirtings from 6 to 15 cents; sheetings 7½ to 18 cents; tickings 25 to 100 cents per yard. |

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                                                                                                           | 12. Raw cotton used yearly \$25,000 worth.                                                                                                                                                                                                            |
| 13. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                        | 13. No similar goods imported.                                                                                                                                                                                                                        |
| 14. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                      | 14. Sixteen men, averaging \$6 17 weekly, and 19 boys, averaging \$1 83 per week, and 76 women and girls, averaging \$2 25 pr. wk.                                                                                                                    |
| 15. How many hours a day employed, and what portion of the year?                                                                                                                                                                                       | 15. Twelve hours per day during the year, except holidays.                                                                                                                                                                                            |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                                                                                                  | 16. Unknown.                                                                                                                                                                                                                                          |
| 17. Number of horses or other animals employed?                                                                                                                                                                                                        | 17. One horse employed by the company. About 20 cows and a few horses are kept by the people on the premises.                                                                                                                                         |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                                                                                                | 18. About two-thirds of the goods are sold in the vicinity, the residue at N. York.                                                                                                                                                                   |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?                                                                                                                              | 19. We know of no foreign goods of the description we make imported.                                                                                                                                                                                  |
| 20. Where are the manufactures consumed?                                                                                                                                                                                                               | 20. Principally in western New York, Ohio, and Michigan.                                                                                                                                                                                              |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                                                                   | 21. Many are exported to various countries.                                                                                                                                                                                                           |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                 | 22. Some is sold for cash, but mostly at 6 months' credit; considerable is exchanged for agricultural productions.                                                                                                                                    |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23. The cost of manufacturing has very materially decreased, which is owing to various causes, viz. the power loom one great cause, improved machinery and experience in business another. Very little alteration has occurred in the price of labor. |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                                                                     | 24. See answer to inquiry No. 11.                                                                                                                                                                                                                     |
| 25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                             | 25. It is very difficult to say exactly what duty is necessary to secure protection. All that is wanted is protection, and unless that is obtained the manufacture must cease.                                                                        |
| 26. Is any change necessary in levying or collecting duties on such articles to prevent fraud?                                                                                                                                                         | 26. Fraud is no doubt often committed on the revenue, and by false invoices, i. e. by undervaluing the cost of the goods imported.                                                                                                                    |
| 27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                           | 27. Raw material \$25,000; wages of labor \$16,000; other materials \$6000; profits uncertain.                                                                                                                                                        |
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?                                                                                                        | 28. Amount is not ascertained. A population of 250 persons is sustained by the establishment.                                                                                                                                                         |
| 29. What quantity or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?                                                                                                                        | 29. We are advised that upwards of thirty millions of goods such as we make, are made yearly in the United States.                                                                                                                                    |
| 30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices?                                               | 30. Should the duty be reduced to 12½ per cent., we have no doubt we should have to abandon the business. We cannot now reduce the price of manufacturing.                                                                                            |

## DOCUMENT 10.—No. 18—Continued.

| QUESTIONS.                                                                                                                                                                | ANSWERS.                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 31. If it would cause you to abandon your business, in what way would you employ your capital?                                                                            | 31. Should we have to abandon our business, our capital would be totally lost, save about ten per cent., or it may be doubtful whether so much would be realized."                                                                                               |
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent.?            | 32. When the duties are reduced to 12½ per cent., we must pursue some other business, but we cannot expect any means from the ruins of the present.                                                                                                              |
| 33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent., and how gradual should the reduction be? | 33. This is a question difficult to answer, as, unless protection is realized, no profit whatever could be expected; hence any reduction in duty cannot avail, as by a reduction revenue is no doubt the object; but when revenue is obtained protection ceases. |
| 34. Average profit of money or capital in your county?                                                                                                                    | 34. The rate of interest is seven per cent. Capital produces sometimes much more; and sometimes much less.                                                                                                                                                       |
| 35. Average rate of wages in your county?                                                                                                                                 | 35. Unknown.                                                                                                                                                                                                                                                     |

All which is respectfully submitted.  
 Utica, March 24, 1832.

E. B. SHEARMAN & CO.,  
 Agents Utica Cotton Manufacturing Company.

Mr. Shearman is a highly intelligent merchant, and a very respectable man. J. A. DIX.

## DOCUMENT 10.—No. 19.

*Manufactory of the New Hartford Manufacturing Society, situate in the town of New Hartford, in the County of Oneida, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                                                                                           | ANSWERS.                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                                                        | 1. By water power.                                                                                                                                                                                 |
| 2. When established; and whether a joint stock concern?                                                                                                              | 2. Buildings erected in 1811; a joint stock concern.                                                                                                                                               |
| 3. Capital invested in ground and buildings, water power and machinery?                                                                                              | 3. Sixty thousand dollars; floating capital fifteen thousand.                                                                                                                                      |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                                                         | 4. For materials twenty-one thousand dollars; for wages fifteen thousand dollars.                                                                                                                  |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory?                                                                         | 5. From 1821, the time at which I took charge of the factory, until 1829, say 8 per cent.; from 1829 to 1830, 4 per cent.; and from 1830 to 1831, 8 per cent.; and from 1831 to 1832, 10 per cent. |
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                             | 6. No capital borrowed.                                                                                                                                                                            |
| 7. What has been the rate of profits annually for the last three years? If a joint stock company, what dividends have been received?                                 | 7. From 1829 to 1830, 4 per cent.; from 1830 to 1831, 8 per cent.; and from 1831 to 1832, 10 per cent. Dividends for 1829, 4 per cent.; 1830, no dividend; 1831, 10 per ct.                        |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and therefore not annually divided? | 8. During the last three years, 8 per cent. of the profits has been converted into fixed capital; and ten thousand dollars of the floating capital has been appropriated to the same purpose.      |
| 9. Causes of the increase (or decrease) of profit at different periods of time?                                                                                      | 9. See answer to 23d query.                                                                                                                                                                        |

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10. Rates of profit on capital otherwise employed in the same county and State?                                                                                                                                                                        | 10. I am not sufficiently acquainted with the employment of capital in the county to ascertain the profits.                                                                                                                                                                                                                                         |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                 | 11. Not having been employed until June, 1821, it would be out of my power to state, with any degree of certainty, the amount of manufactured articles before that period; and from that till the present year, I have no data sufficiently accurate to enable me to state the quantity manufactured annually.                                      |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                                                                                                           | 12. 160,000 pounds of cotton at 11½ cents per pound, \$18,400; transportation, &c. of same \$2,000; sperm oil \$500; candles \$100; flour \$420; wood \$200.                                                                                                                                                                                        |
| 13. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                        | 13. See answer to 12.                                                                                                                                                                                                                                                                                                                               |
| 14. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                       | 14. 14 men, average wages \$7 50 per week, including board; 45 girls, from 16 to 24, average wages \$2 per week, including board; 40 girls, from 11 to 15, average wages \$1 62 per week, including board; 10 boys, from 10 to 14, average wages \$1 62 do.                                                                                         |
| 15. How many hours a day employed, and what portion of the year?                                                                                                                                                                                       | 15. 12 hours a day the whole year, except holidays.                                                                                                                                                                                                                                                                                                 |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                                                                                                  | 16. Men from \$1 to \$1 25 per day, including board; girls, from 16 to 24, from 75 cents to \$1, do.; the second class of girls and boys very little except their board.                                                                                                                                                                            |
| 17. Number of horses or other animals employed?                                                                                                                                                                                                        | 17. 1 horse and 23 cows.                                                                                                                                                                                                                                                                                                                            |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                                                                                                | 18. One-third sent to New York, one-third sent to the western country, and one-third sold at the factory.                                                                                                                                                                                                                                           |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?                                                                                                                              | 19. I believe no articles of a similar kind are imported.                                                                                                                                                                                                                                                                                           |
| 20. Where are the manufactures consumed?                                                                                                                                                                                                               | 20. The greater part consumed in the United States; a small portion sent abroad.                                                                                                                                                                                                                                                                    |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                                                                   | 21. A portion, I believe, are sent to South America.                                                                                                                                                                                                                                                                                                |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                 | 22. Generally sold on a credit of six mo's.                                                                                                                                                                                                                                                                                                         |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23. The decrease in price has been owing to improvement in machinery, experience and skill in manufacture, the great increase of capital employed in manufactures, and the power looms which have reduced the price of weaving from six cents to one, and, in some measure, to the variation in the price of materials at different periods.        |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                                                                     | 24. In 1812, I am informed the cloths sold at 30 cents; from that time till 1821, it declined until it fell to 12 cents; from that time until 1824, 10 cents, and continued at about that price until 1828, when they sold at 8 cents; in 1829 and 1830, they sold at 6 cents; and from that until 1832, they sold at 8 cents, and now sell for 7½. |

DOCUMENT 10.—No. 19—Continued.

| QUESTIONS.                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                           | 25. See answer to the 30th query.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 26. Is any change necessary in levying or collecting duties on such articles to prevent fraud?                                                                                                                       | 26. My residence being distant from the place of the collection of duties, I can give no answer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                         | 27. Cotton for one yard of cloth, $3\frac{1}{2}$ cents; spinning, dressing and weaving do., $2\frac{1}{2}$ cents; oil, flour, wood, candles, repairs, insurance, commissions, losses on sales, $\frac{1}{2}$ cent; the profit on capital 1 cent, if the goods brought $7\frac{1}{2}$ cts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?                                                                      | 28. The whole amount of agricultural and other domestic productions, consumed by the laborers and others connected with the manufactory, would be \$10,000 per annum.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 29. What quantity or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?                                                                                      | 29. I am not acquainted with the amount produced.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to $12\frac{1}{2}$ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices? | 30. If the duty upon the foreign manufacture were reduced to $12\frac{1}{2}$ per cent., I think it would, eventually, destroy the manufacture of the kind of goods we make; as it would be the cause of a great many of the establishments which now are devoted to the finer fabrics to change their business to the coarser cloths, and would so increase the quantity as to reduce the price so low as to ruin all the weaker establishments. Besides, it would enable foreigners to enter into the market, and probably sell under what we could afford, as the improvements, in every respect, have gone on in Europe as well as here; and, it is believed, have much exceeded us in many respects, and I believe, further, if it had not been for the aid given us by the tariff of 1816 and 1824, we could not have continued to do what we have done, but must have yielded to the importations. |
| 31. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                       | 31. If the business should be abandoned, it would be almost a total loss, except the floating capital.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to $12\frac{1}{2}$ per cent.?                                           | 32. In my opinion, the business could not be carried on after such a reduction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent., and how gradual should the reduction be?                                            | 33. If the reduction of duties should reduce the price of goods below $7\frac{1}{2}$ cents, we could not make 6 per cent. upon the capital.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 34. Average profit of money or capital in your county?                                                                                                                                                               | 34. Seven per cent., the customary interest.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 35. Average rate of wages in your county?                                                                                                                                                                            | 35. See answer to 16th query.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

NEW HARTFORD, March 20, 1832.

SAMUEL HICKS, Agent.



DOCUMENT 10.—No. 20.—STATISTICAL VIEW of the Cotton Manufacturing Establishments in the State of New York, in 1832.

| Name of the<br>owner, or es-<br>tablishment. | Location.    | Capital emp-<br>loyed. | No. of mills. | When erected. | No. of throsle<br>spindles. | No. of mule<br>spindles. | Total number<br>of spindles. | No. of looms. | No. of yarn<br>spun. | Yarn sold an-<br>nually. | Yards of cloth<br>made annual-<br>ly. | Weight of<br>cloth. |
|----------------------------------------------|--------------|------------------------|---------------|---------------|-----------------------------|--------------------------|------------------------------|---------------|----------------------|--------------------------|---------------------------------------|---------------------|
| <i>Oneida County.</i>                        |              |                        |               |               |                             |                          |                              |               |                      |                          |                                       |                     |
| N. York Mills                                | Whitestown   | 250,000                | 2             | 1835 '8       | 1,920                       | 7,056                    | 8,976                        | 268           | 40                   | -                        | 1,100,000                             | 240,000             |
| Oneida Cot. Factory                          | Do           | 75,000                 | 1             | 1829          | 1,056                       | 1,656                    | 2,712                        | 84            | 16                   | 3,000                    | 700,000                               | 103,350             |
| Whitestown do                                | New Hartford | 50,000                 | 1             | 1812          | 1,536                       | 1,344                    | 2,880                        | 70            | 23                   | 22,900                   | 523,200                               | 92,500              |
| Utica do                                     | Do           | 70,000                 | 2             | 1822          | 1,780                       | 812                      | 2,592                        | 24            | 16                   | -                        | 500,000                               | 90,000              |
| Sangersfield do                              | Sangersfield | 30,000                 | 1             | 1814 '15      | -                           | -                        | 1,038                        | 24            | 18                   | -                        | 200,000                               | 450,000             |
| Paris do                                     | Paris        | 43,000                 | 1             | -             | -                           | -                        | 1,600                        | 54            | 16                   | -                        | 450,000                               | 125,000             |
| Schemando do                                 | Vernon       | 6,500                  | 1             | 1812          | 250                         | -                        | 250                          | 6             | 15                   | 18,000                   | 600,000                               | 600,000             |
| Franklin do                                  | Paris        | 60,000                 | 1             | 1828          | 1,272                       | 1,632                    | 2,904                        | 76            | 16                   | -                        | 600,000                               | 600,000             |
| Rome do                                      | Rome         | 15,000                 | 1             | -             | -                           | -                        | 800                          | 20            | 15                   | 60,000                   | 600,000                               | 75,550              |
| New Hartford do                              | New Hartford | 60,000                 | 1             | 1813          | 1,500                       | 1,500                    | 3,000                        | 80            | 16                   | 9,000                    | 300,000                               | 300,000             |
| Half Century do                              | Do           | 10,000                 | 1             | 1826          | -                           | -                        | 516                          | -             | 15                   | 40,000                   | 300,000                               | 300,000             |
| Eagle Cotton do                              | Do           | 25,000                 | 2             | 1816 '22      | 804                         | 1,048                    | 1,852                        | 42            | 16                   | 12,480                   | 300,000                               | 75,550              |
| Mechanics' do                                | Do           | 6,000                  | 1             | 1812          | 500                         | -                        | 500                          | -             | 15                   | 9,700                    | 300,000                               | 300,000             |
| Allen & Sweet                                | Do           | 3,000                  | 1             | 1830          | 250                         | -                        | 250                          | -             | 8                    | -                        | 300,000                               | 300,000             |
| John Curlius                                 | Paris        | 2,000                  | 1             | 1830          | 108                         | -                        | 108                          | -             | 8                    | -                        | 300,000                               | 300,000             |
| Manchester Factory                           | Kirkland     | 25,000                 | 1             | 1815          | 672                         | 696                      | 1,368                        | 58            | 14                   | -                        | 300,000                               | 300,000             |
| Hovey's do                                   | Whitestown   | 5,000                  | 1             | -             | -                           | -                        | 250                          | -             | 14                   | -                        | 300,000                               | 300,000             |
| <i>Jefferson County.</i>                     |              |                        |               |               |                             |                          |                              |               |                      |                          |                                       |                     |
| Black river Cot. & Wool.                     | Watertown    | 20,000                 | 1             | 1814          | 360                         | 360                      | 720                          | 18            | 15                   | 20,000                   | 132,720                               | 30,840              |
| Jefferson Cot. Factory                       | Do           | 100,000                | 1             | 1827          | -                           | -                        | 4,000                        | 124           | 18                   | 660                      | 572,000                               | 63,000              |
| Brownville do                                | Brownville   | 50,000                 | 1             | 1815          | -                           | 1,300                    | 1,300                        | 36            | 17                   | 2,000                    | 300,000                               | 75,000              |
| <i>Monroe County.</i>                        |              |                        |               |               |                             |                          |                              |               |                      |                          |                                       |                     |
| E. T. Smith's Factory                        | Rochester    | 40,000                 | 1             | 1828          | 1800                        | -                        | 1,800                        | 42            | 18                   | 25,000                   | 300,000                               | 800,000             |
| Wm. Rathbone's do                            | Rochester    | 15,000                 | 1             | 1831          | -                           | -                        | 848                          | -             | -                    | 89,000                   | 300,000                               | 800,000             |
| <i>Chenango County.</i>                      |              |                        |               |               |                             |                          |                              |               |                      |                          |                                       |                     |
| Farmers' & Mechanics'                        | New Berlin   | 75,000                 | 1             | 1828          | 2,160                       | 2,314                    | 4,474                        | 124           | 16                   | -                        | 800,000                               | 800,000             |

DOCUMENT 10.—No. 20.—STATISTICAL VIEW—Continued.

| Name of the owner, or establishment | Location     | No. of males employed, & average week-ly wages. | No. of females employed, & average week-ly wages. | No. of males empl'd bet'n the ages of 13 & 16, & aver- age week-ly wages. | No. of those empl'd under 12 yrs. of age, and average week-ly wages. | Persons de- pendant for support. | Quantity of cot- ton manufac- tured annual- ly. | Lbs. of starch used annually for sizing. | Lbs. of flour used annually for sizing. | Cords of wood used for fuel. | Tons of coal used for fuel. | Gallons of oil used. | Value of arti- cles not enu- merated. |
|-------------------------------------|--------------|-------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------|-------------------------------------------------|------------------------------------------|-----------------------------------------|------------------------------|-----------------------------|----------------------|---------------------------------------|
| <i>Oneida County.</i>               |              |                                                 |                                                   |                                                                           |                                                                      |                                  |                                                 |                                          |                                         |                              |                             |                      |                                       |
| N. York Mills                       | Whitestown   | 6 47 50                                         | 250 22 66                                         | 70 21 50                                                                  | 30 20 75                                                             | 736                              | 280,000                                         | -                                        | 39 200                                  | 400                          | -                           | 2,000                |                                       |
| Oneida Cot. Factory                 | Do           | 6 7 50                                          | 77 2 25                                           | 32 2 50                                                                   | -                                                                    | 250                              | 185,000                                         | -                                        | 19,000                                  | 300                          | -                           | 600                  |                                       |
| Whitestown do                       | New Hartford | 37 3 50                                         | 83 1 94                                           | -                                                                         | 20 0 90                                                              | 230                              | 147,990                                         | 150                                      | -                                       | 150                          | -                           | 500                  |                                       |
| Utica do                            | Do           | 36 4 00                                         | 80 2 25                                           | -                                                                         | 12 1 00                                                              | 200                              | 200,000                                         | 85                                       | -                                       | 200                          | 8                           | 600                  |                                       |
| Sangersfield do                     | Sangersfield | 21 2 64                                         | 23 0 66                                           | -                                                                         | -                                                                    | 85                               | 50,000                                          | 10                                       | -                                       | 125                          | -                           | 300                  |                                       |
| Paris do                            | Paris        | 15 7 50                                         | 50                                                | -                                                                         | -                                                                    | 100                              | 140,000                                         | -                                        | -                                       | 60                           | -                           | 300                  |                                       |
| Schenando do                        | Vernon       | 6 3 80                                          | 7 1 36                                            | -                                                                         | -                                                                    | 34                               | 20,000                                          | -                                        | -                                       | 50                           | -                           | 40                   |                                       |
| Franklin do                         | Paris        | 30                                              | 70                                                | -                                                                         | -                                                                    | 150                              | 140,000                                         | 50                                       | -                                       | 50                           | -                           | 1,000                |                                       |
| Rome do                             | Rome         | 12 4 00                                         | 20 1 50                                           | -                                                                         | -                                                                    | 50                               | 70,000                                          | -                                        | -                                       | 50                           | -                           | 200                  |                                       |
| New Hartford do                     | New Hartford | 10 7 00                                         | 90 2 00                                           | -                                                                         | -                                                                    | 250                              | 175,000                                         | 70                                       | -                                       | 100                          | -                           | 600                  |                                       |
| Half Century do                     | Do           | 2 6 00                                          | 12 2 00                                           | -                                                                         | -                                                                    | 30                               | 50,000                                          | -                                        | -                                       | 30                           | -                           | 150                  |                                       |
| Eagle Cotton do                     | Do           | 28 3 50                                         | 32 1 50                                           | -                                                                         | -                                                                    | 144                              | 80,000                                          | 25                                       | -                                       | 150                          | -                           | 400                  |                                       |
| Mechanics' do                       | Do           | 2 7 50                                          | 15 1 96                                           | -                                                                         | -                                                                    | 25                               | 50,000                                          | -                                        | -                                       | 50                           | -                           | 150                  |                                       |
| Allen S. Sweet do                   | Do           | 2 7 00                                          | 10 2 00                                           | -                                                                         | -                                                                    | 15                               | 12,000                                          | -                                        | -                                       | 30                           | -                           | 100                  |                                       |
| John Curless do                     | Paris        | -                                               | -                                                 | -                                                                         | -                                                                    | -                                | 6,000                                           | -                                        | -                                       | -                            | -                           | 350                  |                                       |
| Manchester Fac'ory do               | Kirkland     | 3 7 00                                          | 27 1 96                                           | -                                                                         | -                                                                    | 30                               | 80,000                                          | -                                        | -                                       | 60                           | -                           | 30                   |                                       |
| Hovey's do                          | Whitestown   | 5 4 00                                          | 8 1 50                                            | -                                                                         | -                                                                    | 25                               | 20,000                                          | -                                        | -                                       | 50                           | -                           | -                    |                                       |
| <i>Jefferson County.</i>            |              |                                                 |                                                   |                                                                           |                                                                      |                                  |                                                 |                                          |                                         |                              |                             |                      |                                       |
| Black river Cot. & Wool.            | Watertown    | 7 7 50                                          | 20 2 13                                           | -                                                                         | -                                                                    | 150                              | 42,000                                          | 12                                       | -                                       | 100                          | -                           | 100                  |                                       |
| Jefferson Cot. Factory              | Do           | 36 4 00                                         | 87 2 06                                           | -                                                                         | -                                                                    | 275                              | 220,000                                         | 150                                      | -                                       | 200                          | -                           | 600                  |                                       |
| Brownville do                       | Brownville   | 14 4 25                                         | 50 1 75                                           | -                                                                         | 7                                                                    | 170                              | 65,000                                          | -                                        | -                                       | 200                          | -                           | 175                  |                                       |
| <i>Munroe County.</i>               |              |                                                 |                                                   |                                                                           |                                                                      |                                  |                                                 |                                          |                                         |                              |                             |                      |                                       |
| E. T. Smith's Factory               | Rochester    | 26 2 75                                         | 45 2 00                                           | -                                                                         | 15                                                                   | 200                              | 120,000                                         | 20                                       | -                                       | 100                          | -                           | 400                  |                                       |
| Wm. Rathbone's do                   | Rochester    | 12 2 81                                         | 17 1 86                                           | -                                                                         | 5                                                                    | 120                              | 88,000                                          | 30                                       | -                                       | 30                           | -                           | 120                  |                                       |
| <i>Chenango County.</i>             |              |                                                 |                                                   |                                                                           |                                                                      |                                  |                                                 |                                          |                                         |                              |                             |                      |                                       |
| Farmers' & Mechanics' do            | New Berlin   | 146 male and female.                            | and female.                                       | -                                                                         | -                                                                    | 225                              | 280,000                                         | 50                                       | -                                       | 200                          | -                           | 1,000                |                                       |

DOCUMENT 10.—No. 20.—STATISTICAL VIEW—Continued.

| Name of the establishment, or owner, or es- | Location.     | Capital em-<br>ployed. | No. of mills. | When erected. | No. of throsle<br>spindles. | No. of mule<br>spindles. | Total number<br>of spindles. | No. of looms.        | No. of yarn<br>spun. | Yarn sold an-<br>nually.   | Yards of cloth<br>made annual-<br>ly. | Weight of<br>cloth. |
|---------------------------------------------|---------------|------------------------|---------------|---------------|-----------------------------|--------------------------|------------------------------|----------------------|----------------------|----------------------------|---------------------------------------|---------------------|
| <i>Tompkins County.</i>                     |               |                        |               |               |                             |                          |                              |                      |                      |                            |                                       |                     |
| Otis Eddy's                                 | Itasca        | \$18,000               | 2             | 1826 '31      | 324                         | 288                      | 612                          | 24                   | 16                   | 1,000                      | 149,063                               | 65,000              |
| — Aldrich                                   | Do            | 10,000                 | 1             | -             | -                           | -                        | 200                          | 20                   | -                    | -                          | 50,000                                | -                   |
| <i>Oneida County.</i>                       |               |                        |               |               |                             |                          |                              |                      |                      |                            |                                       |                     |
| Wm. Bradley & Co.                           | Manlius       | 32,000                 | 1             | 1815          | 960                         | 432                      | 1,392                        | 46                   | 16                   | 5,000                      | 260,000                               | -                   |
| Williams, Gilbert, & Re-<br>mington         | Do            | 30,000                 | 1             | 1828 '29      | 384                         | 384                      | 768                          | 24                   | 18                   | -                          | 900,000                               | 44,400              |
| <i>Seneca County.</i>                       |               |                        |               |               |                             |                          |                              |                      |                      |                            |                                       |                     |
| Seneca Falls Co.                            | Seneca Falls  | 70,000                 | 1             | 1831          | -                           | -                        | 4,000                        | 120                  | 45                   | -                          | 550,000                               | -                   |
| <i>Madison County.</i>                      |               |                        |               |               |                             |                          |                              |                      |                      |                            |                                       |                     |
| J. F. Chamberlin                            | Eaton         | 5,000                  | 1             | 1830          | 230                         | 160                      | 390                          | -                    | 18                   | 11,500                     | -                                     | -                   |
| David Rogers                                | Do            | 10,000                 | 1             | -             | 504                         | -                        | 504                          | -                    | 16                   | 20,000                     | -                                     | -                   |
| Lebanon                                     | Lebanon       | 15,000                 | 1             | -             | 672                         | 432                      | 1,104                        | Not in<br>operation. | -                    | -                          | -                                     | -                   |
| <i>Otsego County.</i>                       |               |                        |               |               |                             |                          |                              |                      |                      |                            |                                       |                     |
| John Cockett & Co.                          | Hartwick      | 16,000                 | 1             | 1814          | 600                         | 700                      | 1,300                        | 22                   | 16                   | 20,000                     | 150,000                               | 111,578             |
| Phenix Factory                              | Middlefield   | 40,000                 | 1             | -             | 1,596                       | -                        | 1,596                        | 46                   | 16                   | -                          | 330,000                               | spring.             |
| Butternutt do                               | Butternutt    | 70,000                 | 1             | 1813          | 1,056                       | 1,176                    | 2,232                        | 62                   | 17                   | -                          | 530,000                               | 127,111             |
| Hargrave do                                 | Do            | 30,000                 | 1             | 1831          | 1,300                       | 1,286                    | 2,586                        | 60                   | To                   | be put in operation in the | 572,000                               | 96,250              |
| Union do                                    | Hartwick      | 50,000                 | 1             | 1828          | -                           | -                        | 2,524                        | 70                   | 17                   | -                          | 440,000                               | -                   |
| Hope do                                     | Hopeville     | 50,000                 | 1             | -             | 2,156                       | -                        | 2,156                        | 55                   | 17                   | -                          | 300,000                               | -                   |
| Rusel Williams                              | Oakville      | 30,000                 | 2             | -             | -                           | -                        | 1,700                        | 44                   | 20                   | -                          | -                                     | -                   |
| Cable & Bradbury                            | Burlington    | 10,000                 | 1             | -             | -                           | -                        | 750                          | -                    | 14                   | 18,000                     | -                                     | -                   |
| Garrettsville                               | Garrettsville | 4,000                  | 1             | -             | -                           | -                        | 300                          | -                    | 8                    | 9,000                      | -                                     | -                   |
| Wharton Creek                               | Wharton Creek | 4,000                  | 1             | -             | -                           | -                        | 300                          | -                    | 9                    | 9,000                      | -                                     | -                   |

DOCUMENT 10.—No. 20.—STATISTICAL VIEW—Continued.

| Name of the owner, or establishment. | Location.     | No. of males employed, and average week-ly wages. | No. of females employed, and average week-ly wages. | No. of males empl'd between the ages of 12 & 16, & aver. weekly wages. | No. of those empl'd under 12 yrs. of age, and average weekly wages. | Persons dependent for support. | Quantity of cotton manufac-tured annual-ly. | Lbs. of starch used annually for sizing. | Lbs. of flour used annually for sizing. | Cords of wood used for fuel. | Tons of coal used for fuel. | Gallons of oil used. | Value of arti-cles not enu-merated. |
|--------------------------------------|---------------|---------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------|---------------------------------------------|------------------------------------------|-----------------------------------------|------------------------------|-----------------------------|----------------------|-------------------------------------|
| <i>Tompkins County.</i>              |               |                                                   |                                                     |                                                                        |                                                                     |                                |                                             |                                          |                                         |                              |                             |                      |                                     |
| Otis Eddy's                          | Itasca        | 16                                                | 20 \$1 75                                           | -                                                                      | 6 \$1 25                                                            | 97                             | 35,500                                      | 8                                        | -                                       | 60                           | -                           | 150                  |                                     |
| — Aldrich                            | Do            | 8                                                 | 9                                                   | -                                                                      | -                                                                   | -                              | 20,000                                      | -                                        | -                                       | -                            | -                           | -                    |                                     |
| <i>Orangeta County.</i>              |               |                                                   |                                                     |                                                                        |                                                                     |                                |                                             |                                          |                                         |                              |                             |                      |                                     |
| Wm. Bradley & Co.                    | Manlius       | 7 \$8 20                                          | 53 1 84                                             | -                                                                      | 9 1 13                                                              | 150                            | 75,000                                      | 20                                       | -                                       | 100                          | -                           | 400                  |                                     |
| Williams, Gilbert, & Remington       | Do            | 5 9 64                                            | 22 1 35                                             | 10 1 \$25                                                              | -                                                                   | 75                             | 50,000                                      | 20                                       | -                                       | 50                           | -                           | 175                  |                                     |
| <i>Seneca County.</i>                |               |                                                   |                                                     |                                                                        |                                                                     |                                |                                             |                                          |                                         |                              |                             |                      |                                     |
| Seneca Falls Co.                     | Seneca Falls  | -                                                 | -                                                   | -                                                                      | -                                                                   | 150                            | 190,000                                     | -                                        | -                                       | -                            | -                           | -                    |                                     |
| <i>Madison County.</i>               |               |                                                   |                                                     |                                                                        |                                                                     |                                |                                             |                                          |                                         |                              |                             |                      |                                     |
| J. F. Chamberlin                     | Eaton         | 3                                                 | 12                                                  | -                                                                      | -                                                                   | 15                             | 15,000                                      | -                                        | -                                       | 30                           | -                           | 200                  |                                     |
| David Rogers                         | Do            | -                                                 | 17                                                  | -                                                                      | -                                                                   | 20                             | 20,000                                      | -                                        | -                                       | 50                           | -                           | 300                  |                                     |
| Lebanon                              | Lebanon       | -                                                 | -                                                   | -                                                                      | -                                                                   | -                              | -                                           | -                                        | -                                       | -                            | -                           | -                    |                                     |
| <i>Oscego County.</i>                |               |                                                   |                                                     |                                                                        |                                                                     |                                |                                             |                                          |                                         |                              |                             |                      |                                     |
| John Cockett & Co.                   | Hartwick      | 3 6 00                                            | 30 1 75                                             | -                                                                      | -                                                                   | 80                             | 65,000                                      | 10                                       | -                                       | 100                          | -                           | 150                  |                                     |
| Phenix Factory                       | Middlefield   | 18 4 00                                           | 51 2 50                                             | -                                                                      | 6 1 38                                                              | 175                            | 80,000                                      | 20                                       | -                                       | 130                          | -                           | 300                  |                                     |
| Butternutt do                        | Butternutt    | 17 4 20                                           | 68 1 96                                             | -                                                                      | 7 1 25                                                              | 200                            | 126,543                                     | 49                                       | -                                       | 300                          | -                           | 600                  |                                     |
| Hargrave do                          | Do            | -                                                 | -                                                   | -                                                                      | -                                                                   | -                              | -                                           | -                                        | -                                       | -                            | -                           | -                    |                                     |
| Union do                             | Hartwick      | 23 4 31                                           | 80 1 92                                             | -                                                                      | -                                                                   | 223                            | 143,000                                     | 60                                       | -                                       | 225                          | -                           | 575                  |                                     |
| Hope do                              | Hopeville     | 18 6 00                                           | 83 2 30                                             | -                                                                      | -                                                                   | 300                            | 104,000                                     | 40                                       | -                                       | 200                          | -                           | 309                  |                                     |
| Russel Williams                      | Oakville      | 20                                                | 45                                                  | -                                                                      | 3                                                                   | 120                            | 60,000                                      | 30                                       | -                                       | 300                          | -                           | 600                  |                                     |
| Cable & Bradbury                     | Burlington    | 6 6 00                                            | 15 2 00                                             | -                                                                      | 10                                                                  | 40                             | 20,000                                      | 10                                       | -                                       | 50                           | -                           | 300                  |                                     |
| Garrettsville                        | Garrettsville | 3 6 00                                            | 10 2 00                                             | -                                                                      | -                                                                   | 20                             | 10,000                                      | -                                        | -                                       | 30                           | -                           | 150                  |                                     |
| Wharton Creek                        | Wharton Creek | 3 6 00                                            | 10 2 00                                             | -                                                                      | -                                                                   | 20                             | 10,000                                      | -                                        | -                                       | 30                           | -                           | 130                  |                                     |

DOCUMENT 10.—No. 20.—STATISTICAL VIEW.—Continued.

| Name of the<br>owner, or es-<br>tablishment. | Location.         | Capital em-<br>ployed. | No. of mills. | When erected. | No. of throstle<br>spindles. | No. of mule<br>spindles. | Total number<br>of spindles. | No. of looms. | No. of yarn<br>spun. | Yarn sold an-<br>nually. | Yards of cloth<br>made annual-<br>ly. | Weight of<br>cloth. |
|----------------------------------------------|-------------------|------------------------|---------------|---------------|------------------------------|--------------------------|------------------------------|---------------|----------------------|--------------------------|---------------------------------------|---------------------|
| <i>Herkimer County.</i>                      |                   |                        |               |               |                              |                          |                              |               |                      |                          |                                       |                     |
| Herkimer M. Co.                              | Middleville       | \$20,000               | 1             | 1814          | 708                          | 432                      | 1,140                        | 36            | 15                   | 2,000                    | 209,912                               | 58,480              |
| George Arnold                                | Poland            | 5,000                  | 1             | 1823          | 276                          | -                        | 276                          | -             | 9                    | 90,000                   | -                                     | -                   |
| Bandal Rice                                  | Do                | 2,000                  | 1             | 1831          | 96                           | -                        | 96                           | -             | 12                   | 5,200                    | -                                     | -                   |
| Philip Fenner                                | Do                | 2,000                  | 1             | -             | -                            | -                        | 164                          | -             | 10                   | 6,300                    | -                                     | -                   |
| New Port Cot. Factory                        | New Port          | 6,000                  | 1             | -             | 504                          | 116                      | 620                          | 20            | Not<br>in operation. | -                        | -                                     | -                   |
| <i>Cayuga County.</i>                        |                   |                        |               |               |                              |                          |                              |               |                      |                          |                                       |                     |
| Auburn Factory                               | Auburn            | 70,000                 | 1             | 1816          | 1,648                        | 1,044                    | 2,692                        | 80            | 16                   | 8,000                    | 180,000                               | -                   |
| <i>Columbia County.</i>                      |                   |                        |               |               |                              |                          |                              |               |                      |                          |                                       |                     |
| James Wild & Co.                             | Columbiaville     | 70,000                 | 2             | 1894 '98      | 2,208                        | 2,448                    | 4,656                        | 150           | 35                   | -                        | 500,000 4-4                           | 125,000             |
| N. Wild, agent                               | Kinderhook        | 84,000                 | 2             | 1814 '98      | 2,048                        | 3,162                    | 5,210                        | 40            | 24                   | 10,000                   | -                                     | -                   |
| J. & J. W. Wardle                            | Glencaster M. Co. | 35,000                 | 1             | 1837          | 992                          | 1,008                    | 2,000                        | 48            | 50                   | 40,000                   | 250,000                               | 70,000              |
| A. A. Van Allen & Co.                        | Stuyvesant        | 15,000                 | 1             | 1828          | 560                          | 240                      | 800                          | -             | 28                   | 45,000                   | 400,400                               | 108,680             |
| Reed & Watson                                | Livingston        | 14,000                 | 1             | 1828          | 540                          | 60                       | 600                          | -             | 8                    | 104,000                  | -                                     | -                   |
| <i>Rensselaer County.</i>                    |                   |                        |               |               |                              |                          |                              |               |                      |                          |                                       |                     |
| R. P. Hart & A. Briggs                       | Schaghticoke      | 116,000                | 2             | 1818 '26      | 2,296                        | 1,400                    | 3,696                        | 114           | 19                   | 1,000                    | 850,000                               | 181,000             |
| B. Joy & W. R. Swift                         | Do                | 12,000                 | 1             | 1812          | 750                          | -                        | 750                          | 18            | 21                   | -                        | 149,700 4-4                           | 36,860              |
| Epr. Congdon                                 | Do                | 22,000                 | 1             | 1830          | 432                          | -                        | 432                          | 20            | 18                   | -                        | 125,000 4-4                           | 35,000              |
| Giles Congdon                                | Do                | 40,000                 | 1             | 1831          | 1,000                        | -                        | 1,000                        | 40            | 18                   | -                        | 250,000                               | 66,000              |
| Jed. Tracy, agent                            | Troy W. & C. Fy   | 100,000                | 1             | 1812          | 1,500                        | 90                       | 1,590                        | 46            | 17                   | 19,110                   | 263,615                               | 53,030              |
| Marshalls & Becknap                          | Ida Mills, Troy   | 80,000                 | 1             | 1826          | 1,392                        | 1,260                    | 2,652                        | 98            | 30                   | 5,000                    | 400,000                               | 85,000              |
| H. Herrington & Co.                          | Hoosick           | 10,000                 | 1             | 1831          | -                            | -                        | -                            | -             | -                    | -                        | -                                     | -                   |
| Caledonia Co., J. Mer-<br>ritt & others      | Do                | 41,000                 | 1             | 1823          | 784                          | 694                      | 1,468                        | 46            | 25                   | -                        | 275,000                               | 44,500              |
| Howick Manuf. Co.                            | Do                | 30,000                 | 1             | 1812          | 512                          | 360                      | 872                          | 18            | 17                   | 10,000                   | 140,000                               | 35,000              |

Document 10.—No. 20.—STATISTICAL VIEW—Continued.

| Name of the owner, or establishment. | Location.         | No. of males employed, and average weekly wages. | No. of females employed, and average weekly wages. | No. of males empl'd between the ages of 17 & 18, & average weekly wages. | No. of those empl'd under 12 yrs. of age, and average weekly wages. | Persons dependent for support. | Quantity of cotton manufactured annually. | Lbs. of starch used annually for sizing. | Lbs. of flour used annually for sizing. | Cords of wood used for fuel. | Tons of coal used for fuel. | Gallons of oil used. | Value of articles not enumerated. |
|--------------------------------------|-------------------|--------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------|-------------------------------------------|------------------------------------------|-----------------------------------------|------------------------------|-----------------------------|----------------------|-----------------------------------|
| <i>Herkimer County.</i>              |                   |                                                  |                                                    |                                                                          |                                                                     |                                |                                           |                                          |                                         |                              |                             |                      |                                   |
| Herkimer M. Co.                      | Middleville       | 15 \$3 33                                        | 45 \$1 57                                          | -                                                                        | 6                                                                   | -                              | 68 237                                    | 21                                       | -                                       | 70                           | -                           | 150                  | -                                 |
| George Arnold                        | Poland            | 6 2 00                                           | 10 1 40                                            | -                                                                        | 3                                                                   | 33                             | 25,000                                    | -                                        | -                                       | 80                           | -                           | 120                  | -                                 |
| Randal Rice                          | Do                | 3                                                | -                                                  | -                                                                        | -                                                                   | -                              | 6,000                                     | -                                        | -                                       | 10                           | -                           | 15                   | -                                 |
| Philip Fenner                        | Do                | 1 6 00                                           | 5 2 00                                             | -                                                                        | -                                                                   | 10                             | 7,000                                     | -                                        | -                                       | 20                           | -                           | 75                   | -                                 |
| New Port Cot. Factory                | New Port          |                                                  |                                                    |                                                                          |                                                                     |                                |                                           |                                          |                                         |                              |                             |                      |                                   |
| <i>Cayuga County.</i>                |                   |                                                  |                                                    |                                                                          |                                                                     |                                |                                           |                                          |                                         |                              |                             |                      |                                   |
| Auburn Factory                       | Auburn            | 29 2 74                                          | 38 1 48                                            | -                                                                        | 6 \$1 00                                                            | 138                            | 180,000                                   | 46                                       | -                                       | 80                           | -                           | 400                  | -                                 |
| <i>Columbia County.</i>              |                   |                                                  |                                                    |                                                                          |                                                                     |                                |                                           |                                          |                                         |                              |                             |                      |                                   |
| James Wild & Co.                     | Columbiaville     | 39 8 00                                          | 100 2 34                                           | 58 \$1 75                                                                | 24 1 25                                                             | 600                            | 138,000                                   | -                                        | 25,480                                  | 10                           | 50                          | 1,000                | 2,600                             |
| N. Wild, agent                       | Kinderhook        | 24 7 00                                          | 79 1 75                                            | 20 1 75                                                                  | 18 1 12                                                             | 400                            | 136,000                                   | -                                        | 5,880                                   | 36                           | 16                          | 600                  | 1,200                             |
| J. & J. W. Wardle                    | Glencaster M. Co. | 13 8 00                                          | 50 2 00                                            | 10 2 00                                                                  | 7 1 31                                                              | 115                            | 122,000                                   | -                                        | 11,760                                  | 25                           | 25                          | 700                  | -                                 |
| A. A. Van Allen & Co.                | Stuyvesant        | 16 2 75                                          | 18 1 75                                            | -                                                                        | -                                                                   | 70                             | 50,000                                    | -                                        | -                                       | -                            | 15                          | 800                  | -                                 |
| Reed & Watson                        | Livingston        | 7 6 00                                           | 13 1 75                                            | 7 1 75                                                                   | 9 1 13                                                              | 80                             | 113,000                                   | -                                        | -                                       | 6                            | 6                           | 128                  | 250                               |
| <i>Rensselaer County.</i>            |                   |                                                  |                                                    |                                                                          |                                                                     |                                |                                           |                                          |                                         |                              |                             |                      |                                   |
| R. F. Hart & A. Briggs               | Schaghticoke      | 30 6 00                                          | 71 2 30                                            | 66 1 80                                                                  | 24 0 87                                                             | \$65                           | 204,800                                   | 5,850                                    | 8,400                                   | 140                          | -                           | 810                  | 3,000                             |
| B. Joy & W. R. Swift                 | Do                | 6 4 50                                           | 22 1 60                                            | -                                                                        | -                                                                   | 60                             | 40,500                                    | 1,500                                    | -                                       | 25                           | -                           | 100                  | 100                               |
| Wm. Congdon                          | Do                | 8 3 00                                           | 20 2 00                                            | -                                                                        | -                                                                   | 40                             | 40,000                                    | -                                        | 3,000                                   | 30                           | -                           | 300                  | -                                 |
| Giles Slocum                         | Do                | 14 5 50                                          | 40 2 00                                            | -                                                                        | -                                                                   | 80                             | 75,000                                    | -                                        | 6,000                                   | 60                           | -                           | 406                  | -                                 |
| Jed. Tracy, agent                    | Troy W. & C. Fry  | 26 2 50                                          | 35 2 00                                            | -                                                                        | 13 1 00                                                             | 160                            | 80,000                                    | 3,400                                    | 1,200                                   | 30                           | -                           | 400                  | -                                 |
| Marshalls & Belknap                  | Ida Mills, Troy   | 38 4 15                                          | 70 2 39                                            | -                                                                        | 9 0 97                                                              | 200                            | 107,000                                   | -                                        | 10,000                                  | -                            | 30                          | 900                  | 1,000                             |
| H. Herrington & Co.                  | Hoosick           |                                                  |                                                    |                                                                          |                                                                     |                                |                                           |                                          |                                         |                              |                             |                      |                                   |
| Calcuttina Co., J. Mer-              |                   |                                                  |                                                    |                                                                          |                                                                     |                                |                                           |                                          |                                         |                              |                             |                      |                                   |

DOCUMENT 10.—No. 20.—STATISTICAL VIEW.—Continued.

| Name of the<br>owner, or es-<br>tablishment. | Location.      | Capital em-<br>ployed. | No. of mills. | When erected. | No. of throstle<br>spindles. | No. of mule<br>spindles. | Total number<br>of spindles. | No. of looms. | No. of yarn<br>spun. | Yarn sold an-<br>nually. | Yards of cloth<br>made annual-<br>ly. | Weight of<br>cloth. |
|----------------------------------------------|----------------|------------------------|---------------|---------------|------------------------------|--------------------------|------------------------------|---------------|----------------------|--------------------------|---------------------------------------|---------------------|
| <i>Rensselaer Co.—Contin'd.</i>              |                |                        |               |               |                              |                          |                              |               |                      |                          |                                       |                     |
| Heman Ticknor                                | Pittsdown      | 15,000                 | 1             | 1831          | 850                          | -                        | 850                          | 24            | 20                   | 60,000                   | 87,000 4-4                            | 23,000              |
| L. A. Viele                                  | Do             | 12,000                 | 1             | 1813          | 738                          | 180                      | 938                          | -             | 10                   | -                        | -                                     | -                   |
| Jos. Haskin & Co.                            | Do             | 10,000                 | 1             | -             | 450                          | -                        | 450                          | 14            | 16                   | -                        | -                                     | -                   |
| Gershom Turner                               | Nassau         | 25,000                 | 1             | 1827          | 796                          | 200                      | 996                          | -             | 18                   | 52,000                   | Sat. warp.                            | 50,000              |
| Van Buren & Best                             | Do             | 12,000                 | 1             | 1831          | 480                          | 432                      | 912                          | 30            | 20                   | -                        | 250,000                               | -                   |
| <i>Franklin County.</i>                      |                |                        |               |               |                              |                          |                              |               |                      |                          |                                       |                     |
| Jonas Stearns                                | Malone         | 10,000                 | 1             | 1830          | -                            | -                        | -                            | -             | -                    | -                        | -                                     | -                   |
| <i>Saratoga County.</i>                      |                |                        |               |               |                              |                          |                              |               |                      |                          |                                       |                     |
| Philip Schuyler                              | Schuylersville | 50,000                 | 1             | 1828          | 1,080                        | 1,000                    | 2,080                        | 66            | 20                   | -                        | 335,160                               | 60,000              |
| Jno. W. Freeman                              | Moreau         | 30,000                 | 1             | 1808          | 512                          | 432                      | 944                          | 32            | 18                   | -                        | 312,000                               | 48,000              |
| L. Bullen, agent                             | Mechanicville  | 40,000                 | 1             | 1830          | 1,512                        | -                        | 1,512                        | 44            | 20                   | -                        | 300,000                               | 75,000              |
| Jno. Haswell, agent                          | Waterford      | 24,000                 | 1             | 1829          | 576                          | 640                      | 1,216                        | 32            | 18                   | -                        | 263,500                               | 58,500              |
| <i>Washington County.</i>                    |                |                        |               |               |                              |                          |                              |               |                      |                          |                                       |                     |
| Reuben Skinner                               | Granville      | 5,000                  | 1             | 1815          | -                            | -                        | -                            | -             | -                    | -                        | -                                     | -                   |
| W. Mowrey & others                           | Greenwich      | 60,000                 | 2             | 1804 '12      | 1,200                        | 1,050                    | 2,250                        | 44            | 19                   | -                        | 380,000                               | 70,000              |
| Anthony McLean                               | Do             | 30,000                 | 1             | 1826          | 672                          | 432                      | 1,104                        | 40            | 22                   | 11,000                   | 337,650                               | 46,000              |
| Eben. Raymond                                | Salem          | 5,000                  | 1             | 1828          | 252                          | -                        | 252                          | -             | 8                    | 22,500                   | -                                     | -                   |
| <i>Schenectady County.</i>                   |                |                        |               |               |                              |                          |                              |               |                      |                          |                                       |                     |
| Archibald Craig                              | Schenectady    | 77,000                 | 1             | 1814          | 1,200                        | 800                      | 2,000                        | 50            | 17                   | 20,000                   | 416,000                               | 83,000              |
| <i>Ulster County.</i>                        |                |                        |               |               |                              |                          |                              |               |                      |                          |                                       |                     |
| T. C. Butler                                 | Dashville      | 80,000                 | 1             | 1828          | 792                          | 2,496                    | 3,288                        | 6             | 10                   | 190,000                  | 20,000                                | 10,000              |
| B. & J. Arnold                               | Arnoldtown     | 40,000                 | 1             | 1828          | 1,008                        | -                        | 1,008                        | 12            | 10                   | 40,000                   | 95,000                                | 29,300              |
| Bernard Dunn                                 | Eddyville      | 20,000                 | 1             | 1806          | 900                          | 600                      | 1,500                        | -             | 12                   | 100,000                  | -                                     | -                   |

DOCUMENT 10.—No. 20.—STATISTICAL VIEW—Continued.

| Name of the owner, or establishment. | Location.      | No. of males employed, and average week-ly wages. | No. of females employed, and average week-ly wages. | No. of males emp'd bet'n the ages of 12 & 16, & aver- weekly wages. | No. of those emp'd under 12 yrs. of age, and average weekly wages. | Persons de- pendant for support. | Quantity of cot- ton manu- factured annual- ly. | Lbs. of starch used annually for sizing. | Lbs. of flour used annually for sizing. | Cords of wood used for fuel. | Tons of coal used for fuel. | Gallons of oil used. | Value of arti- cles not enu- merated. |
|--------------------------------------|----------------|---------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------|-------------------------------------------------|------------------------------------------|-----------------------------------------|------------------------------|-----------------------------|----------------------|---------------------------------------|
| <i>Rensselaer Co.—Contin'd.</i>      |                |                                                   |                                                     |                                                                     |                                                                    |                                  |                                                 |                                          |                                         |                              |                             |                      |                                       |
| Heman Ticknor                        | Pittstown      | 3 \$5 00                                          | 20 \$1 25                                           | -                                                                   | 15 \$1 10                                                          | 75                               | 65,000                                          | -                                        | 3,000                                   | 40                           | -                           | 150                  | 150                                   |
| L. A. Vicle                          | Do             | 6 4 50                                            | 20 1 75                                             | -                                                                   | -                                                                  | 50                               | 26,000                                          | -                                        | 1,600                                   | 30                           | -                           | 300                  | 250                                   |
| Jos. Haskin & Co.                    | Do             | 10 4 42                                           | 22 1 68                                             | -                                                                   | -                                                                  | 100                              | 60,000                                          | -                                        | 1,600                                   | 60                           | -                           | 250                  | 250                                   |
| Gershon Turner                       | Nassau         | 10 5 00                                           | 36 1 75                                             | -                                                                   | -                                                                  | 110                              | 56,000                                          | -                                        | 4,000                                   | 60                           | -                           | 300                  | 300                                   |
| Van Buren & Best                     | Do             |                                                   |                                                     |                                                                     |                                                                    |                                  |                                                 |                                          |                                         |                              |                             |                      |                                       |
| <i>Franklin County.</i>              |                |                                                   |                                                     |                                                                     |                                                                    |                                  |                                                 |                                          |                                         |                              |                             |                      |                                       |
| Jona. Stearns                        | Malone         |                                                   |                                                     |                                                                     |                                                                    |                                  |                                                 |                                          |                                         |                              |                             |                      |                                       |
| <i>Saratoga County.</i>              |                |                                                   |                                                     |                                                                     |                                                                    |                                  |                                                 |                                          |                                         |                              |                             |                      |                                       |
| Philip Schuyler                      | Schuylersville | 13 5 00                                           | 53 2 00                                             | -                                                                   | -                                                                  | 110                              | 68,000                                          | 4,380                                    | 784                                     | 30                           | -                           | 400                  | 600                                   |
| Jno. W. Freeman                      | Moreau         | 12 3 70                                           | 33 2 37                                             | -                                                                   | -                                                                  | 100                              | 54,000                                          | 1,600                                    | -                                       | 80                           | -                           | 230                  | 200                                   |
| L. Bullen, agent                     | Mechanicville  | 16 3 50                                           | 40 2 00                                             | -                                                                   | 8 1 13                                                             | 140                              | 83,000                                          | 3,300                                    | 3,200                                   | 30                           | -                           | 300                  | 3,500                                 |
| Jno. Haswell, agent                  | Waterford      | 6 7 00                                            | 28 2 00                                             | -                                                                   | 4 1 75                                                             | 110                              | 65,000                                          | -                                        | 4,000                                   | 40                           | -                           | 250                  | 250                                   |
| <i>Washington County.</i>            |                |                                                   |                                                     |                                                                     |                                                                    |                                  |                                                 |                                          |                                         |                              |                             |                      |                                       |
| Reuben Skinner                       | Granville      | 15 3 50                                           | 40 1 63                                             | -                                                                   | 8 0 63                                                             | 150                              | 80,000                                          | 1,200                                    | 4,000                                   | 80                           | -                           | 410                  | 1,000                                 |
| W. Mowrey & others                   | Greenwich      | 14 4 56                                           | 36 1 68                                             | -                                                                   | 7 0 77                                                             | 100                              | 63,000                                          | -                                        | 6,000                                   | 100                          | -                           | 400                  | 400                                   |
| Anthony McLean                       | Do             | 2 3 00                                            | 9 1 38                                              | -                                                                   | -                                                                  | 25                               | 25,800                                          | -                                        | -                                       | 25                           | -                           | 70                   | 50                                    |
| Eben. Raymond                        | Salem          |                                                   |                                                     |                                                                     |                                                                    |                                  |                                                 |                                          |                                         |                              |                             |                      |                                       |
| <i>Schenectady County.</i>           |                |                                                   |                                                     |                                                                     |                                                                    |                                  |                                                 |                                          |                                         |                              |                             |                      |                                       |
| Archibald Craig                      | Schenectady    | 20 3 75                                           | 48 1 74                                             | -                                                                   | 35 0 75                                                            | 200                              | 118,000                                         | -                                        | 5,000                                   | 100                          | -                           | 500                  | 400                                   |
| <i>Ulster County.</i>                |                |                                                   |                                                     |                                                                     |                                                                    |                                  |                                                 |                                          |                                         |                              |                             |                      |                                       |
| T. C. Butler                         | Dashville      | 14 5 50                                           | 40 1 50                                             | 36 \$1 25                                                           | 25 0 75                                                            | 200                              | 220,000                                         | -                                        | 1,600                                   | -                            | 30                          | 600                  | 2,000                                 |
| B. & J. Arnold                       | Arnoldtown     | 24 3 00                                           | 25 1 75                                             | -                                                                   | 15 0 87                                                            | 150                              | 80,000                                          | -                                        | 1,600                                   | 2                            | 5                           | 250                  | 250                                   |
| Bernard Dunn                         | Eddyville      | 9 6 00                                            | 25 2 50                                             | -                                                                   | 12 1 00                                                            | 123                              | 110,000                                         | -                                        | -                                       | 4                            | 10                          | 250                  | 250                                   |



DOCUMENT 10.—No. 20.—STATISTICAL VIEW—Continued.

| Name of the<br>owner, or es-<br>tablishment. | Location.       | Capital em-<br>ployed. | No. of mills. | When erected. | No. of thistle<br>spindles. | No. of mule<br>spindles. | Total number<br>of spindles. | No. of looms. | No. of yarn<br>spun. | Yarn sold an-<br>nually. | Yards of cloth<br>made annual-<br>ly. | Weight of<br>cloth. |
|----------------------------------------------|-----------------|------------------------|---------------|---------------|-----------------------------|--------------------------|------------------------------|---------------|----------------------|--------------------------|---------------------------------------|---------------------|
| <i>Dutchess County.</i>                      |                 |                        |               |               |                             |                          |                              |               |                      |                          |                                       |                     |
| Isaac Merritt                                | Hartville       | \$25,000               | 2             | 1825 '27      | 1,080                       | -                        | 1,080                        | 19            | 20                   | 66,000                   | Sat. warp.                            | 70,000              |
| Do                                           | Do              |                        | -             | -             | 480                         | -                        | 480                          |               |                      |                          |                                       |                     |
| Manchester Factory                           | Poughkeepsie    | 75,000                 | 1             | 1814          | 2,016                       | -                        | 2,016                        | 64            | 20                   | 33,000                   | 240,000 4-4                           |                     |
| M. G. & P. Germond                           | Union Vale      | 11,000                 | 1             | 1808          | 566                         | -                        | 566                          | -             | 20                   | 46,000                   | Sat. warps.                           | 72,000              |
| Swift, Taylor & Forbes                       | Poughkeepsie    | 19,000                 | 1             | 1825          | 840                         | -                        | 840                          | 60            | 40                   | 500                      | 400,000                               | 90,000              |
| Gilbert Brewster                             | Do              | 30,000                 | 1             | 1831          | -                           | 2,000                    | 2,000                        | 55            | 25                   | -                        | 400,000                               | 135,000             |
| John Given                                   | Do              | 68,000                 | 1             | 1825          | 2,472                       | -                        | 2,472                        | 74            | 21                   | 40,000                   | 400,000 4-4                           | 104,000             |
| John Given & others                          | Pleasant Valley | 75,000                 | 1             | 1814          | 3,000                       | -                        | 3,000                        | 100           | 16                   | -                        | 312,000                               | 200,000 bevtens     |
| Mattewan Factory                             | Pishkill        | 150,000                | 3             | 1814 '31      | 2,736                       | -                        | 2,736                        | 150           | -                    | -                        | 100,000                               | 22,000              |
| Do                                           | Do              | -                      | 1             | 1831          | 2,500                       | -                        | 2,500                        | -             | -                    | -                        | 269,000                               | 83,700              |
| <i>Clinton County.</i>                       |                 |                        |               |               |                             |                          |                              |               |                      |                          |                                       |                     |
| A. & G. Richardson & Co.                     | Plattsburgh     | 10,000                 | 1             | 1831          | 168                         | 216                      | 384                          | 16            | 18                   | -                        | 300,000 4-4                           | 100,000             |
| Plattsburgh Company                          | Do              | 6,000                  | 1             | 1831          | 500                         | design'd                 | 500                          | -             | -                    | -                        | 180,000                               | 40,000              |
| <i>Orange County.</i>                        |                 |                        |               |               |                             |                          |                              |               |                      |                          |                                       |                     |
| J. & J. Townsend & Co.                       | Cornwall        | 70,000                 | 1             | 1810 '17      | 1,136                       | 864                      | 2,000                        | 56            | 21                   | 4,000                    | -                                     | -                   |
| Walkill Co., J. P. Cooke,                    | Walden          | 50,000                 | 1             | 1826          | 600                         | 900                      | 1,500                        | 40            | 14                   | -                        | -                                     | -                   |
| agent                                        | Blooming Grove  | 15,000                 | 1             | 1826          | 700                         | -                        | 700                          | 18            | 20                   | -                        | -                                     | -                   |
| <i>Westchester County.</i>                   |                 |                        |               |               |                             |                          |                              |               |                      |                          |                                       |                     |
| New Rochelle Company                         | New Rochelle    | 20,000                 | 2             | 1806          | 800                         | -                        | 800                          | -             | 18                   | 42,000                   | -                                     | -                   |
| Manaroneck                                   | Manaroneck      | 50,000                 | 1             | 1814          | 6,300                       | -                        | 6,300                        | -             | 24                   | 300,000                  | -                                     | -                   |
| Mineral Spring                               | New Rochelle    | 25,000                 | 1             | -             | 1,000                       | -                        | 1,000                        | -             | 13                   | 60,000                   | -                                     | -                   |
| Hickory Grove                                | Manaroneck      | 20,000                 | 1             | -             | -                           | 1,300                    | 1,300                        | -             | 40                   | 36,000                   | -                                     | -                   |

DOCUMENT 16.—No. 20.—STATISTICAL VIEW.—Continued.

| Name of the owner, or establishment. | Location.       | No. of males employed, and average week-ly wages. | No. of females employed, and average week-ly wages. | No. of males emp'd bet'n the ages of 12 & 16, & aver. weekly wages. | No. of those emp'd under 12 yrs. of age, and average weekly wages. | Persons dependent for support. | Quantity of cotton manufac- tured annual- ly. | Lbs. of starch used annually for sizing. | Lbs. of flour used annually for sizing. | Cords of wood used for fuel. | Tons of coal used for fuel. | Gallons of oil used. | Value of arti- cles not enu- merated. |
|--------------------------------------|-----------------|---------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------|-----------------------------------------------|------------------------------------------|-----------------------------------------|------------------------------|-----------------------------|----------------------|---------------------------------------|
| <i>Duchess County.</i>               |                 |                                                   |                                                     |                                                                     |                                                                    |                                |                                               |                                          |                                         |                              |                             |                      |                                       |
| Isaac Merritt                        | Hartville       | 7 \$7 00                                          | 31 \$1 75                                           | 4 \$1 50                                                            | 4 \$1 20                                                           | 90                             | 72,000                                        | -                                        | 10,000                                  | 25                           | 16                          | 300                  | 650                                   |
| Do                                   | Do              |                                                   |                                                     |                                                                     |                                                                    |                                |                                               |                                          |                                         |                              |                             |                      |                                       |
| Manchester Factory                   | Poughkeepsie    | 15 7 50                                           | 70 1 63                                             | -                                                                   | -                                                                  | 120                            | 80,000                                        | -                                        | 10,000                                  | 20                           | 20                          | 400                  | 1,000                                 |
| M. G. & P. Germond                   | Union Vale      | 9 2 88                                            | 13 1 77                                             | -                                                                   | 4 1 25                                                             | 55                             | 37,080                                        | -                                        | 4,000                                   | 20                           | 5                           | 150                  | 200                                   |
| Swift, Taylor, & Forbes              | Poughkeepsie    | 5 5 00                                            | 24 1 75                                             | -                                                                   | -                                                                  | 40                             | 52,000                                        | -                                        | 5,000                                   | -                            | 16                          | 203                  | 350                                   |
| Gilbert Brewster                     | Do              | 15 6 00                                           | 40 1 75                                             | -                                                                   | 5 1 25                                                             | 150                            | 82,000                                        | -                                        | 8,000                                   | -                            | 20                          | 400                  | 800                                   |
| John Given                           | Do              | 20 5 00                                           | 50 1 38                                             | -                                                                   | 8 1 00                                                             | 148                            | 100,000                                       | -                                        | 10,000                                  | 5                            | 20                          | 300                  | 1,000                                 |
| John Given & others                  | Pleasant Valley | 15 7 50                                           | 80 1 50                                             | -                                                                   | 20 1 00                                                            | 250                            | 150,000                                       | -                                        | 20,000                                  | 10                           | 30                          | 500                  | 2,000                                 |
| Mattewan Factory                     | Fishkill        | 26 9 00                                           | 113 2 25                                            | -                                                                   | -                                                                  | 1,000                          | 160,000                                       | -                                        | 10,000                                  | 400                          | 50                          | 2,000                | 1,500                                 |
| Do do                                | Do              | 17 7 00                                           | 104 2 00                                            | -                                                                   | -                                                                  | 121                            | 100,000                                       | -                                        | -                                       | -                            | -                           | -                    | -                                     |
| <i>Clinton County.</i>               |                 |                                                   |                                                     |                                                                     |                                                                    |                                |                                               |                                          |                                         |                              |                             |                      |                                       |
| A. & G. Richardson & Co.             | Plattsburgh     | 6 4 50                                            | 18 1 75                                             | -                                                                   | -                                                                  | 70                             | 25,000                                        | 800                                      | -                                       | 70                           | -                           | 200                  | 600                                   |
| Plattsburgh Company                  | Do              |                                                   |                                                     |                                                                     |                                                                    |                                |                                               |                                          |                                         |                              |                             |                      |                                       |
| <i>Orange County.</i>                |                 |                                                   |                                                     |                                                                     |                                                                    |                                |                                               |                                          |                                         |                              |                             |                      |                                       |
| J. & J. Townsend & Co.               | Cornwall        | 28 3 50                                           | 43 2 50                                             | -                                                                   | 23 1 50                                                            | 170                            | 96,000                                        | -                                        | 10,000                                  | 300                          | -                           | 800                  | -                                     |
| Walkill Co., J. P. Cooke, agent      | Walden          | 25 3 00                                           | 40 2 00                                             | -                                                                   | 20 1 00                                                            | 200                            | 110,000                                       | -                                        | 14,000                                  | 100                          | -                           | 500                  | 300                                   |
| Blooming Grove                       | Blooming Grove  | 10 4 00                                           | 25 1 75                                             | -                                                                   | -                                                                  | 90                             | 45,000                                        | -                                        | 8,000                                   | 50                           | -                           | 200                  | 300                                   |
| <i>Westchester County.</i>           |                 |                                                   |                                                     |                                                                     |                                                                    |                                |                                               |                                          |                                         |                              |                             |                      |                                       |
| New Rochelle Company                 | New Rochelle    | 10 4 50                                           | 20 1 50                                             | -                                                                   | -                                                                  | 60                             | 48,000                                        | -                                        | -                                       | 40                           | -                           | 200                  | 1,000                                 |
| Manaroneck do                        | Manaroneck      | 10 9 00                                           | 30 2 00                                             | -                                                                   | 2 1 50                                                             | 100                            | 330,000                                       | -                                        | -                                       | -                            | 120                         | 1,000                | 300                                   |
| Mineral Spring                       | New Rochelle    | 10 4 00                                           | 22 1 50                                             | -                                                                   | -                                                                  | 70                             | 67,000                                        | -                                        | -                                       | 45                           | -                           | 250                  | 300                                   |
| Hickory Grove                        | Manaroneck      | 8 10 00                                           | 20 1 50                                             | -                                                                   | -                                                                  | 50                             | 41,000                                        | -                                        | -                                       | 30                           | -                           | 300                  | 250                                   |

DOCUMENT 10.—No. 20.—STATISTICAL VIEW.—Continued.

| Name of the<br>owner, or es-<br>tablishment.         | Location. | Capital em-<br>ployed. | No. of mills. | When erected. | No. of throstle<br>spindles. | No. of mule<br>spindles. | Total number<br>of spindles. | No. of looms. | No. of yarn<br>spun. | Yarn sold an-<br>nually. | Yards of cloth<br>made annual-<br>ly. | Weight of<br>cloth. |
|------------------------------------------------------|-----------|------------------------|---------------|---------------|------------------------------|--------------------------|------------------------------|---------------|----------------------|--------------------------|---------------------------------------|---------------------|
| <i>Rockland County.</i><br>J. & G. Pierson & bro's - | Ramapo    | \$100,000              | 1             | 1814          | 3,500                        | -                        | 3,500                        | 80            | 16                   | 40,000                   | 460,000                               | 140,000             |
| <i>Suffolk County.</i><br>J. & J. Fair -             | Patchague | 10,000                 | 1             | -             | 384                          | 192                      | 576                          | -             | 8                    | 33,000                   | -                                     | -                   |
|                                                      |           | 3,671,500              | 112           | -             | -                            | -                        | 157,316                      | 3,673         | -                    | 1,867,790                | 21,010,920                            | -                   |

Employed in the city of New York in coloring and weaving \$100,000 capital, weaving 6,000,000 yards, giving support to 2,000 persons; value to the yarn colored and wove 6d. per yard, \$360,000.

J. & B. Marshall's Bleaching and Printing Works \$520,000 capital, bleaching and printing 5,000,000 yards, giving support to 648 persons; giving an increased value to the cloth of 6d. per yard, \$306,000.

Staten Island and New York Printing Establishment \$104,000 capital, bleaching and printing estimated at 1,020,000 yards, giving support to 149 persons; giving an increased value to the cloth of 6d. per yard, \$61,200.

Six machine shops, employed in the manufacture of cotton machinery, \$90,000 capital, capable of making 18,500 spindles with their appendages, giving support to 220 persons; value of the spindles \$185,000.

## Document 10.—No. 20.—STATISTICAL VIEW—Continued.

| Name of the owner or establishment            | Location  | No. of males employed and average week-ly wages. | No. of females employed and average week-ly wages. | No. of males emp'd bet'n the ages of 12 & 16, & aver- weekly wages. | No. of those emp'd under 12 yrs. of age, and average weekly wages. | Persons de- pendant for support. | Quantity of cot- tured annual- ly. | Lbs. of starch used annually for sizing. | Lbs. of flour used annually for sizing. | Cords of wood used for fuel. | Tons of coal used for fuel. | Gallons of oil used. | Value of arti- cles not enu- merated. |
|-----------------------------------------------|-----------|--------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------|------------------------------------|------------------------------------------|-----------------------------------------|------------------------------|-----------------------------|----------------------|---------------------------------------|
| Rockland County.<br>J. & G. Pierson & bro's - | Ramapo    | 30 \$9 00                                        | 180 \$2 25                                         | -                                                                   | -                                                                  | 500                              | 200,000                            | -                                        | 14,600                                  | 100                          | -                           | 2,500                | 2,000                                 |
| Suffolk County.<br>J. & J. Fair -             | Patchague | 6 5 00                                           | 14 2 00                                            | -                                                                   | -                                                                  | 30                               | 36,000                             | -                                        | -                                       | 20                           | -                           | 30                   | 100                                   |
|                                               |           | 1,246                                            | 3,684                                              | 323                                                                 | 466                                                                | 12,954                           | 7,961,676                          | 23,007                                   | 992,704                                 | 7038                         | 493                         | 35,323               | 90,900                                |

**J. & B. Marshall's Printing and Bleaching Establishments consume annually—**

Of domestic growth and production, 3,000 cords of wood, valued at

150 barre's pot ashes, valued at

200 do flour, do '

|     |    |         |    |
|-----|----|---------|----|
| 200 | do | flour,  | do |
| 400 | do | starch, | do |

do search, do  
do opperas and cochineal, do

opperas and coinnel, do  
000 oil vitriol.

1000000 lbs. bleaching powders, value

50 chests of indigo.

50 chests of indigo,  
50 bbls madder.

50 hhds. madder,  
10 ceros cochineal

10 cerroons cochineal,  
100 tons dye woods.

100 tons dye woods,  
dries

**Messrs. Marshalls have commenced using coal; estimate their requirements for a year 2,000 tons.**

This abstract was prepared with great care by Mr. Richard P. Hart, of Troy, from original returns furnished by the agents and proprietors of cotton and, so far as I examined them, it is perfectly accurate.

**P. S.**—This is an entire view of all the cotton establishments in the State of New York.

**JOHN A. DIX.**

## DOCUMENT 10.—No. 21.

*Glenham Company's Manufactory of Broad Cloth, situate in the town of Fishkill, in the County of Dutchess, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                                                                                           | ANSWERS.                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                                                        | 1. Water.                                                                                                                                                                            |
| 2. When established; and whether a joint stock concern?                                                                                                              | 2. 1822: joint stock.                                                                                                                                                                |
| 3. Capital invested in ground and buildings, water power and machinery?                                                                                              | 3. \$100,000.                                                                                                                                                                        |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                                                         | 4. It requires from 20 to \$40,000 to carry on this company business, in materials, &c., &c.                                                                                         |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory?                                                                         | 5. Less than one per cent. per annum.                                                                                                                                                |
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                             | 6. \$40,000 at six per cent., as a floating capital; but none of the \$100,000 is borrowed.                                                                                          |
| 7. What has been the rate of profits annually for the last three years: if a joint stock company, what dividends have been received?                                 | 7. Three per cent.                                                                                                                                                                   |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and therefore not annually divided? | 8. None, except to make up for wear and tear.                                                                                                                                        |
| 9. Causes of the increase (or decrease) of profit at different periods of time?                                                                                      | 9. Frauds on the revenue to such an extent, that not half the duties for protection has been received; and, consequently, a continued overstock of goods.                            |
| 10. Rates of profit on capital otherwise employed in the same county and State?                                                                                      | 10. Presumed to be from six to ten per cent.                                                                                                                                         |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                               | 11. Present annual value of manufacture, one hundred and fifteen thousand dollars. Average annual value from the beginning, about seventy thousand dollars.                          |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                         | 12. 105,000 lbs. of wool, about four-fifths American fleece wool. Value during the year 1831, was about \$63,000.                                                                    |
| 13. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                      | 13. On the average at present, cloths do not bring the cost of importation, if the duties are honestly paid, imported from any where.                                                |
| 14. Number of men, women, and children, employed, and average wages of each class?                                                                                   | 14. One hundred and thirty. 30 men, wages, average, \$6 per week; 40 boys, do. do. \$2; 50 women, do. do. \$2 25; 10 girls, under 16, \$1 50. Total wages per annum, about \$27,000. |
| 15. How many hours a day employed, and what portion of the year?                                                                                                     | 15. Average 11½ hours throughout the year.                                                                                                                                           |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                | 16. As mechanics in general, the rate is rather over those employed in the woollen business, except very skillful hands.                                                             |
| 17. Number of horses or other animals employed?                                                                                                                      | 17. Constantly three horses, besides hiring transportation.                                                                                                                          |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                              | 18. They do not, but in a trifling degree. They are sent to New York for sale.                                                                                                       |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?                                            | 19. They do, to an extent that is nearly ruinous; as answers to queries Nos. 5 and 7 will show.                                                                                      |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>20. Where are the manufactures consumed?</p> <p>21. Whether any of the manufactures are exported to foreign countries? If so, where?</p> <p>22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?</p> <p>23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?</p> <p>24. The prices at which the manufacture has been sold by the manufacturer since the establishment?</p> <p>25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?</p> <p>26. Is any change necessary in levying or collecting duties on such articles to prevent fraud?</p> <p>27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?</p> <p>28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?</p> <p>29. What quantity or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?</p> <p>30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices?</p> <p>31. If it would cause you to abandon your business, in what way would you employ your capital?</p> <p>32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent.?</p> <p>33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent., and how gradual should the reduction be?</p> | <p>20. In the United States.</p> <p>21. None.</p> <p>22. Sales are made by one of the owners in New York, on credit of 6, 7, and 8 months.</p> <p>23. The reduction of cost of manufacturing the same kind of goods is about fifty per cent. since 1822, (gradually in each year,) principally by the introduction of labor-saving machinery. The labor has fluctuated from 20 to 25 per cent.; materials from 1 to 100 per cent.</p> <p>24. The same cloth that was sold at \$3 50 the yard, when the establishment began, (wool at the same price as now,) such cloth will only bring two dollars the yard.</p> <p>25. Having all the materials at as low a rate as the foreigner, 25 per cent. duty on the imported article will be a protection, if the duty is fully collected, not as heretofore, scarcely the half of it.</p> <p>26. Mark or stamp the minimum on each piece, at which they are to pay duty, and allow no change of original marks, under heavy penalties.</p> <p>27. At present it is as follows: Wool, raw material, 50 per cent.; dyeing materials, labor, wear and tear, and various other contingencies, 50 per cent.; profits of capital, 0.</p> <p>28. About seventy thousand dollars of agricultural productions.</p> <p>29. Not known.</p> <p>30. If the duty were reduced to 12½ per cent. on cloths, this establishment could not be kept in operation a month; and what is now worth \$100,000 in buildings and machinery, would not sell for more than \$10,000, if it could be sold at all.</p> <p>31. It will be seen by the foregoing answer that there would be no capital left to be employed, which would literally be the fact.</p> <p>32. After having read the answers to the 31 foregoing queries, I think it will be very plainly seen that a reduction of the duties to 12½ per cent. would completely ruin the manufacturer engaged in this business.</p> <p>33. If the present rates of duties are not more faithfully collected than they have been since the law of 1828 has passed, it will be impossible for the woollen manufacturer to make a clear interest of six per cent. on his capital. The whole woollen manufacturers of the country have not averaged a profit of six per cent. on their capital since 1828.</p> |

## DOCUMENT 10.—No. 21—Continued.

| QUESTIONS.                                             | ANSWERS.                                                                                    |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 34. Average profit of money or capital in your county? | 34. From six to ten per cent. on the general manufactures of the county, excepting woollen. |
| 35. Average rate of wages in your county?              | 35. Mechanics, \$1 25 per day; laborers, 75 cents.                                          |

I have answered the foregoing questions as correctly as I possibly can. I was the original founder of the Glenham Company, and am a fourth owner, and it has been a child of my particular care. I have brought the manufactory of cloths to great perfection in it. It has proved of great importance to our county, and the country in general, but has most wretchedly requited its stockholders, and myself in particular, for the attention and care bestowed on it; owing to the neglect of Government to levy protective duties in time, and still more to their negligence in having them properly collected.

PETER H. SCHENCK.

NEW YORK, March, 1832.

This statement is made by Mr. Peter H. Schenck, of New York, who is well known at Washington, and doubtless to the department.

J. A. DIX.

The attention of the department is respectfully invited to Mr. Schenck's reply to question 25.

## DOCUMENT 10.—No. 22.

*Woollen Manufactory of Bower and Kirk, situate in the town of Poughkeepsie, in the County of Dutchess, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                                                                                           | ANSWERS.                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                                                        | 1. Water power.                                                                                                    |
| 2. When established; and whether a joint stock concern?                                                                                                              | 2. Three years ago; joint, but not incorporated.                                                                   |
| 3. Capital invested in ground and buildings, water power and machinery?                                                                                              | 3. Six thousand and thirty dollars.                                                                                |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                                                         | 4. For labor, eighty-two dollars fifty cents per week; raw materials two hundred and thirty-five dollars per week. |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory?                                                                         | 5. There has been nothing more than seven per cent., and which goes for rent and privileges.                       |
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                             | 6. Six thousand and thirty dollars, at seven per cent.                                                             |
| 7. What has been the rate of profits annually for the last three years:—if a joint stock company, what dividends have been received?                                 | 7. Nothing more than the use of the money.                                                                         |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and therefore not annually divided? | 8. None.                                                                                                           |

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9. Causes of the increase (or decrease) of profit at different periods of time?                                                                                                                                                                        | 9. The cause is very plain; for instance whenever there is a bad trade in England, or any failure in large houses, all their surplus and sacrifices come to this market, and always will as long as they come in at an ad valorem duty. |
| 10. Rates of profit on capital otherwise employed in the same county and state?                                                                                                                                                                        | 10. From six to ten per cent.                                                                                                                                                                                                           |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                 | 11. Seven thousand two hundred and eighty yards of broad cloths annually, averaging two dollars and twenty-five cents per yd.                                                                                                           |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                                                                                                           | 12. Nine thousand pounds of domestic wool principally raised in Duchess county; three thousand and thirty pounds of foreign wool; about five hundred dollars annually for oil and dye wares.                                            |
| 13. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                        | 13. Dont know.                                                                                                                                                                                                                          |
| 14. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                       | 14. Fifteen men, average wages five dollars per week, and five children at one dollar and fifty cents per week.                                                                                                                         |
| 15. How many hours a day employed, and what portion of the year?                                                                                                                                                                                       | 15. The whole year; average time twelve hours per day.                                                                                                                                                                                  |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                                                                                                  | 16. From one dollar to one dollar and fifty cents per day.                                                                                                                                                                              |
| 17. Number of horses or other animals employed?                                                                                                                                                                                                        | 17. One horse.                                                                                                                                                                                                                          |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                                                                                                | 18. Sent to the New York market, about eighty miles.                                                                                                                                                                                    |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale?                                                                                                                                                  | 19. Yes, and always will as long as there is an ad valorem duty.                                                                                                                                                                        |
| 20. Where are the manufactures consumed?                                                                                                                                                                                                               | 20. Don't know.                                                                                                                                                                                                                         |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                                                                   | 21. Can't answer.                                                                                                                                                                                                                       |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                 | 22. Sold on a credit of from six to eight months at an expense of six per cent.                                                                                                                                                         |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23. From 1830 to 1831 the increase on materials was double; no alteration in labor.                                                                                                                                                     |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                                                                     | 24. Broad cloths average two dollars and twenty-five cents per yard.                                                                                                                                                                    |
| 25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                             | 25. Twenty-five per cent. on the goods valued in this country; then there will be no need of false invoices and false oaths.                                                                                                            |
| 26. Is any change necessary in levying or collecting duties on such articles to prevent fraud?                                                                                                                                                         | 26. Most certainly it is; we have not an advantage of ten per cent.; we have known goods pass the custom-house at two shillings and six pence sterling, which cost four and six pence in the English market.                            |



## DOCUMENT 10.—No. 33—Continued.

| QUESTIONS.                                                                                                                                                                                               | ANSWERS.                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                             | 27. Twelve shillings for materials, six shillings for wages, leaving nothing for the profits on capital.                                                               |
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?                                                          | 28. About four thousand two hundred and ninety dollars worth annually.                                                                                                 |
| 29. What quantity or amount of manufactures, such as you make, is produced in the U. States, and what amount in this State?                                                                              | 29. Cannot answer.                                                                                                                                                     |
| 30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices? | 30. We should abandon our business.                                                                                                                                    |
| 31. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                           | 31. If the duties should be reduced to 12½ per cent., it would cause a sacrifice on our stock and goods on hand which would take all our capital and bring us in debt. |
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent.?                                           | 32. Any thing then would be better than manufacturing.                                                                                                                 |
| 34. Average profit of money or capital in your county?                                                                                                                                                   | 34. Seven per cent.                                                                                                                                                    |
| 35. Average rate of wages in your county?                                                                                                                                                                | 35. For mechanics, from one dollar to one dollar and seventy-five cents a day.                                                                                         |

## DOCUMENT 10.—No. 23.

*Woollen Manufactory of J. & J. Wadsworth, situate in the town of Poughkeepsie, in the County of Dutchess, State of New York, March, 1832.*

| QUESTIONS.                                                                                   | ANSWERS.                                                                                                                                |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                | 1. Water power.                                                                                                                         |
| 2. When established; and whether a joint stock concern?                                      | 2. Commenced in 1826. Joint, but not incorporated.                                                                                      |
| 3. Capital invested in ground and buildings, water power and machinery?                      | 3. Twenty thousand dollars; that is, ten thousand dollars in machinery, and ten thousand dollars in ground, buildings, and water power. |
| 4. Average amount in materials, in cash, for the purchase of materials & payment of wages?   | 4. Thirty-six thousand dollars.                                                                                                         |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory? | 5. No profit, but a loss for four years last past.                                                                                      |
| 6. How much of the capital is borrowed, and what interest is paid on it?                     | 6. Ten thousand dollars at six per cent.                                                                                                |

| QUESTIONS.                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7. What has been the rate of profits annually for the last three years? If a joint stock company, what dividends have been received?                                   | 7. No profit, but a great loss.                                                                                                                                                                             |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and, therefore, not annually divided? | 8. None.                                                                                                                                                                                                    |
| 9. Causes of the increase or decrease of profit at different periods of time?                                                                                          | 9. The immense importations in 1828 caused cloths to fall in value. The rise of wool, in anticipation of better prices for cloths, caused the manufacturers to purchase wool at advanced prices.            |
| 10. Rates of profit on capital otherwise employed in the same county and State?                                                                                        | 10. From six to ten per cent.                                                                                                                                                                               |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                 | 11. Twelve thousand yards of broadcloth, and about four thousand yards cassimere. The average value of the cloths about two dollars and fifty cents, and the cassimere one dollar and fifty cents per yard. |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                           | 12. About twenty-eight thousand pounds of wool raised in this county. The average price for the last three years, fifty-six cents per pound. Two thousand five hundred dollars in dye wares and oil.        |
| 13. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                        | 13. Cannot tell.                                                                                                                                                                                            |
| 14. Number of men, women, and children employed, and average wages of each class?                                                                                      | 14. Twenty-nine men, two women, and six children. Average wages, five dollars and fifty cents per week for the men; one dollar and fifty cents per week for the women and children.                         |
| 15. How many hours a day employed, and what portion of the year?                                                                                                       | 15. The whole year. Average time, twelve hours per day.                                                                                                                                                     |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                  | 16. Not less, but should suppose rather more than what the people make in the factory.                                                                                                                      |
| 17. Number of horses or other animals employed?                                                                                                                        | 17. One horse for the use of the factory.                                                                                                                                                                   |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                | 18. There is always a market to be found for them in the city of New York, a distance of eighty miles, at some price.                                                                                       |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?                                              | 19. Yes, and a very severe one, which will be the case as long as any goods are admitted at any duty, and the importers allowed to fix the value of the cloth on their own invoice.                         |
| 20. Where are the manufactures consumed?                                                                                                                               | 20. In the United States.                                                                                                                                                                                   |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                   | 21. Cannot answer.                                                                                                                                                                                          |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                 | 22. For cash, or a credit of six and eight months.                                                                                                                                                          |

| QUESTIONS.                                                                                                                                                                                                                                                    | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased? how much in each year from the establishment of the manufactory? and whether the increase has been in the materials or the labor, and at what rate?</p> | <p>23. The cost increases or decreases according to the price of wool and materials, the wages of labor not varying much for the last three years; and are at the lowest, if people are to live by labor, the price of manufacturing a yard of cloth here costing less than what it ever cost us in England before we left there, which is more than six years ago.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <p>24. The prices at which the manufacture has been sold by the manufacturer since the establishment?</p>                                                                                                                                                     | <p>24. Average two dollars and fifty cents per yard for broadcloths, and one dollar and fifty cents for cassimeres.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <p>25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?</p>                                                                                                             | <p>25. Twenty-five per cent. was the duty on wool, to be reduced in proportion, and the value of the imported article to be fixed here.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>26. Is any change necessary in levying or collecting duties on such articles to prevent fraud?</p>                                                                                                                                                         | <p>26. Most certainly some alteration should be made. We consider the dollar minimum the flood-gate that admits every thing in; and the value of the cloth from whence imported, being the criterion of value, is still worse. Let the duties be collected on the value here, and it will prevent frauds on the revenue. No agent then will have two invoices, or be obliged to swallow oaths. Let there be men who know the value of cloths, to examine them, and there will be no difficulty in manufacturing at a fair profit, if the duty be reduced to twenty-five per cent. This protection would be quite sufficient to the manufacturers, and ought to be to the farmers; then both would prosper, and the south be satisfied. As it is at present, it appears a large protection, but it is not a protection to the manufacturer of twenty per cent., but to the farmer sixty per cent. at least.</p> |
| <p>27. What portion of the cost of your manufactures consists of the price of the raw material; what portion of the wages of labor; and what portion of the profits of capital?</p>                                                                           | <p>27. The materials are more than one-half; the remainder is labor.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p>28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?</p>                                                                                                        | <p>28. Wool and food for support of laborers, about twenty thousand dollars.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p>29. What quantity or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?</p>                                                                                                                        | <p>29. Cannot tell.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <p>30. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices?</p>                                              | <p>30. Most certainly, the price of labor is already too low.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p>31. If it would cause you to abandon your business, in what way would you employ capital?</p>                                                                                                                                                              | <p>31. No capital will be left to employ.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## DOCUMENT 10.—No. 23—Continued.

| QUESTIONS.                                                                                                                                                                  | ANSWERS.                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent.?              | 32. If we could make a dollar a week by any thing, it would be better.                                                                                                                                                                                    |
| 33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent., and how gradual should the reduction be? | 33. We have already said twenty-five per cent. on the value of the goods here, we have no doubt, would realize a profit of six per cent.; and the sooner it is reduced to this the better, that is, on the value of the imported article in this country. |
| 34. Average profit of money or capital in your county?                                                                                                                      | 34. Seven per cent.                                                                                                                                                                                                                                       |
| 35. Average rate of wages in your county?                                                                                                                                   | 35. For mechanics, from one dollar to one dollar and seventy-five cents a day.                                                                                                                                                                            |

## DOCUMENT 10.—No. 24.

*Thomas Williams & Son's Manufactory of Wollen, Cotton, and Cassimere, situate in the town of Poughkeepsie, in the County of Dutchess, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                                                                                           | ANSWERS.                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                                                        | 1. Water power.                                                                                                       |
| 2. When established; and whether a joint stock concern?                                                                                                              | 2. Established in 1828. An individual concern.                                                                        |
| 3. Capital invested in ground and buildings, water power and machinery?                                                                                              | 3. Fifteen thousand dollars. Real estate and machinery.                                                               |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                                                         | 4. Average amount about fifteen thousand dollars.                                                                     |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory?                                                                         | 5. We believe not over six per cent.                                                                                  |
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                             | 6. No permanent loan. Bank facilities about three thousand dollars, at six per cent.                                  |
| 7. What has been the rate of profits annually for the last three years? If a joint stock company, what dividends have been received?                                 | 7. This question answered by the 5th.                                                                                 |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and therefore not annually divided? | 8. The net profits are individual, and are returned in the capital as stated in question 4.                           |
| 9. Causes of the increase (or decrease) of profit at different periods of time?                                                                                      | 9. Excessive importations and frauds on the revenue is undoubtedly the cause of the great fluctuations in our market. |
| 10. Rates of profit on capital otherwise employed in the same county and State?                                                                                      | 10. Not having capital employed in any other business in the State, cannot answer to its profits.                     |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                               | 11. About forty-five thousand dollars annually. Fine broadcloths and cassimeres, averaging from \$2 to \$5 per yard.  |

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                                                                                                           | 12. About 14-16th of the raw material, principally fine wool, the growth of this county, averaging about 55 cents per pound. The 2-16th are mainly dye stuffs, oil, &c. imported. |
| 13. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                        | 13. Broadcloths from England, costing 6s. 3d. sterling the yard, and entered under the dollar minimum. Costs the manufacturer \$2 50 the yard.                                    |
| 14. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                      | 14. Forty-two men, women, and children; average \$4 50 per week, each.                                                                                                            |
| 15. How many hours a day employed, and what portion of the year?                                                                                                                                                                                       | 15. Average twelve hours throughout the year.                                                                                                                                     |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                                                                                                  | 16. Unacquainted with the rate of wages out of our own profession.                                                                                                                |
| 17. Number of horses or other animals employed?                                                                                                                                                                                                        | 17. One horse, with occasional hired help.                                                                                                                                        |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                                                                                                | 18. Sent to the city of New York, distance eighty miles.                                                                                                                          |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale?                                                                                                                                                  | 19. Yes.                                                                                                                                                                          |
| 20. Where are the manufactures consumed?                                                                                                                                                                                                               | 20. In the United States.                                                                                                                                                         |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                                                                   | 21. None that we know of.                                                                                                                                                         |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                 | 22. Usually sold at a credit of from 6 to 8 months; none bartered.                                                                                                                |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23. Not materially varied in each year since the commencement of the establishment.                                                                                               |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                                                                     | 24. Answered in question 11.                                                                                                                                                      |
| 25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                             | 25. The present rate of duties, provided we can realize the protection intended by the law.                                                                                       |
| 26. Is any change necessary in levying or collecting duties on such articles to prevent fraud?                                                                                                                                                         | 26. Yes; do away with the dollar minimum, and establish cash duties.                                                                                                              |
| 27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                           | 27. This question cannot be answered.                                                                                                                                             |
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?                                                                                                        | 28. No correct means of answering this question justly.                                                                                                                           |
| 29. What quantity or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?                                                                                                                        | 29. Not acquainted with those amounts.                                                                                                                                            |

## DOCUMENT 10.—No. 24—Continued.

| QUESTIONS.                                                                                                                                                                                               | ANSWERS.                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices? | 30. We should abandon the business.                                                               |
| 31. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                           | 31. We should have in this to be governed by circumstances.                                       |
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent.?                                           | 32. Yes.                                                                                          |
| 33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent., and how gradual should the reduction be?                              | 33. The woollen business, with the present protecting duties, does not realize over six per cent. |
| 34. Average profit of money or capital in your county?                                                                                                                                                   | 34. Not over six per cent.                                                                        |
| 35. Average rate of wages in your county?                                                                                                                                                                | 35. Refer to the answer of question 16.                                                           |

## DOCUMENT 10.—No. 25.

*Domestic Cloth manufactured in Families in the State of New York, in the year 1834.*

|                                                                      |                     |
|----------------------------------------------------------------------|---------------------|
| Whole number of yards of fulled cloth,                               | - - - - - 2,918,233 |
| Whole number of yards of flannel and other woollen cloth not fulled, | - - - - - 3,468,001 |
| Whole number of yards of linen, cotton, or other thin cloths,        | - - - - - 8,079,992 |

There is no practicable mode of ascertaining the increase of manufactures in families since that year, excepting by inquiring of every family. The amounts above stated were procured in that way by the persons employed to take the census, under the laws of this State, in 1824; and the same information will be obtained in 1834.

This does not answer the query contained in the circular from the Treasury Department; but it is furnished under the impression that it may possibly serve as the basis of an estimate.

J. A. DIX.

## DOCUMENT 10.—No. 26.

*Manufactory of Jonathan Stott, situate in the city of Hudson, in the County of Columbia, in the State of New York, March, 1832.*

| QUESTIONS.                                                              | ANSWERS.                                       |
|-------------------------------------------------------------------------|------------------------------------------------|
| 1. By what power—water, steam, or what other?                           | 1. Water.                                      |
| 2. When established, and whether a joint stock concern?                 | 2. Established in 1828. An individual concern. |
| 3. Capital invested in ground and buildings, water power and machinery? | 3. Twenty-eight thousand dollars.              |

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                                                                                                                                           | 4. Fifty thousand dollars per year.                                                                                                                                                                                |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory?                                                                                                                                                           | 5. Ten per cent.                                                                                                                                                                                                   |
| 7. What has been the rate of profits annually for the last three years? If a joint stock company, what dividends have been received?                                                                                                                   | 7. Ten per cent.                                                                                                                                                                                                   |
| 9. Causes of the increase (or decrease) of profit at different periods of time?                                                                                                                                                                        | 9. Different causes; principally an over stock in market.                                                                                                                                                          |
| 10. Ratés of profit on capital otherwise employed in the same county and State?                                                                                                                                                                        | 10. None.                                                                                                                                                                                                          |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                 | 11. Plannels, the only kind manufactured in the establishment, 38 cents the average per yard. About middle quality.                                                                                                |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                                                                                                           | 12. About thirty-eight thousand dollars. About one-third foreign.                                                                                                                                                  |
| 13. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                        | 13. When foreign articles of the same kind were imported, they sold for about 46 cents per yard. There has none of this quality been imported for the last two or three years, to the knowledge of the proprietor. |
| 14. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                      | 14. Twenty-one men at one dollar per day; fifteen women at fifty cents per day; eight boys at two dollars per week.                                                                                                |
| 15. How many hours a day employed, and what portion of the year?                                                                                                                                                                                       | 15. Eleven hours per day all the year.                                                                                                                                                                             |
| 17. Number of horses or other animals employed?                                                                                                                                                                                                        | 17. Three horses.                                                                                                                                                                                                  |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                                                                                                | 18. Sent to New York.                                                                                                                                                                                              |
| 20. Where are the manufactures consumed?                                                                                                                                                                                                               | 20. All over the country.                                                                                                                                                                                          |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                 | 22. A credit from six to eight months.                                                                                                                                                                             |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23. Since 1828 the article has decreased from 38 cents down to 28 cents in 1832. Materials has increased in and during the same time.                                                                              |
| 25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                             | 25. Do not know.                                                                                                                                                                                                   |
| 26. Is any change necessary, in levying or collecting duties on such articles, to prevent fraud?                                                                                                                                                       | 26. None.                                                                                                                                                                                                          |
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?                                                                                                        | 28. Agricultural, twenty-six thousand dollars. Other domestic productions, twelve thousand dollars.                                                                                                                |

## DOCUMENT 10.—No. 26—Continued.

| QUESTIONS.                                                                                                                                                                                                | ANSWERS.                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 30. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices? | 30. Should abandon the concern at the present price of wool in this country. |
| 31. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                            | 31. Do not know.                                                             |
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent.?                                            | 32. Yes.                                                                     |
| 34. Average profit of money or capital in your county?                                                                                                                                                    | 34. Seven per cent.                                                          |

## DOCUMENT 10.—No. 27.

*Manufactory of Woollens, situate in the town of Sullivan, in the County of Madison, in the State of New York; March, 1832.*

| QUESTIONS.                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                                                          | 1. Water power solely.                                                                                                                                                                                                                            |
| 2. When established; and whether a joint stock concern?                                                                                                                | 2. The buildings were erected, and business commenced in July, 1825. It is not a joint stock concern, but owned by an individual.                                                                                                                 |
| 3. Capital invested in ground and buildings, water power, and machinery?                                                                                               | 3. The buildings are of stone. The capital invested in buildings and machinery is about \$50,000.                                                                                                                                                 |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                                                           | 4. The amount of annual expenditure in labor and raw material, is now from 40 to 45,000 dollars, varying with the price of the raw material.                                                                                                      |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory?                                                                           | 5. From the year 1825 to 1830, there was a loss on operations. From July, 1830, to January 1, 1832, there has been a profit of ten per cent. on the capital.                                                                                      |
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                               | 6. This question it is difficult to answer, because of the variation in the amount of floating capital required in active operations. The legal rate of interest in this State is seven per cent.                                                 |
| 7. What has been the rate of profits annually for the last three years? If a joint stock company, what dividends have been received?                                   | 7. The last two years the profits have been about ten per cent. annually; before that time, nothing.                                                                                                                                              |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and, therefore, not annually divided? | 8. The alterations in machinery, owing to continued improvements, form a large item of expenditure: but what portion has so invested, it is difficult to say. This last year, I suppose, about three of the ten per cent. has been thus expended. |



| QUESTIONS.                                                                                                                                    | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>9. Causes of the increase (or decrease) of profit at different periods of time?</p>                                                        | <p>9. In this country we have so much to say in answer to this question, that it is difficult to be sufficiently concise. Fluctuations in the price of raw materials, and in the policy of Government, are prominent causes of increase or decrease of profit. Indeed, a want of steady policy must always prove ruinous to any manufacturing business, whether of increase or decrease of protection. Prospective increase is an alluring bait for commercial gambling, proving, ultimately, injurious to the manufacturers and merchants. Prospective decrease must produce similar results.</p> |
| <p>10. Rates of profit on capital otherwise employed in the same county and State?</p>                                                        | <p>10. Whether the legal rate of interest in the State will answer this question or not, is uncertain. I cannot otherwise answer it.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p>11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?</p> | <p>11. About 15,000 yards of broadcloth, and 9,000 yards of kerseymere. Broadcloth will average about \$2 60 per yard, and the kerseymere \$1 25 per yard; which would make the income about \$9,000 or \$90,000 the whole capital employed—allowing 2½ commissions on sales, without any guarantee or insurance for credit.</p>                                                                                                                                                                                                                                                                   |
| <p>12. Quality and value of raw materials annually used, distinguishing between foreign and domestic products?</p>                            | <p>This year, in consequence of the fluctuation in the price of wool, the profit will probably be somewhat less.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p>13. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?</p>                        | <p>12. About 50,000 pounds of wool, the product of the country, may be annually used in the factory with the present extent of machinery. The building is, however, sufficiently large for at least double the present machinery and labor employed. The value of wool has varied so much, that I cannot name any price in anticipation: this must depend upon the steadiness of the demand arising from the regularity of the manufacturing operations.</p>                                                                                                                                       |
| <p>14. Number of men, women, and children employed, and average wages of each class?</p>                                                      | <p>13. This question I am unable to answer, except by an examination of the relative policy of foreign Governments, and our own; the nature of the protection afforded abroad, and at home, in allowing a free introduction of raw material, &amp;c. &amp;c. If the protection has reference to the present cost in the United States, with the protection now afforded, I would say the average price above named, would probably be as correct an answer as can be given; competition at the place of sale keeping the domestic and foreign article at about the same price.</p>                 |
| <p>15. How many hours a day employed, and what portion of the year?</p>                                                                       | <p>14. Fifteen men, averaging about \$1 per day; twenty-three women, average about \$2 per week; eleven children, average about \$1 50 per week, each.</p> <p>15. They work the whole year, unless the factory shall be out of repair. They are employed about ten hours in each day.</p>                                                                                                                                                                                                                                                                                                          |

## DOCUMENT 10.—No. 37—Continued.

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                                                                                                  | 16. The ordinary wages of men for labor are about 62½ cents per day, supplying themselves, or \$10 per month, and provisions found by the employer. Women, as servants, about \$1 per week, and provisions found. Children cannot otherwise be advantageously employed, and can get no wages.                                                                                                                                                                                                                                                                                                                                             |
| 17. Number of horses or other animals employed?                                                                                                                                                                                                        | 17. Two horses only are employed, and those are not absolutely necessary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to market?                                                                                                                                                  | 18. About one-fourth of the manufactured articles have been sold at the factory, and the remainder sent to New York to market.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?                                                                                                                              | 19. Foreign articles interfere with them, both at the factory and in New York, and to an extent far beyond what could be anticipated from apparent ability for competition at such place of sale. It must be observed, that the foreign manufacturer has his home market free from all, except domestic competition. He may give a long credit to his foreign customer, who obtains also a long credit on the duty in this country, and gambles for years, while wholly insolvent, staking nothing against the labor and capital of the manufacturer here. Frauds on the revenue constitute another cause for the support of competition. |
| 20. Where are the manufactures consumed?                                                                                                                                                                                                               | 20. These manufactures are consumed most probably altogether in the U. States.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                                                                   | 21. This is included in the preceding answer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                 | 22. The manufacture is sold on a credit of six months. A portion is bartered at the factory for wool principally.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23. The cost of the manufactured article has varied within the last three years, from several causes. The price of the raw material has been much increased. The progressive improvement in machinery, and the additional skill of the labor, has reduced the cost of labor in manufacturing. The increased price of the raw material has been equal to 30 per cent., and the improvement in machinery and labor is equal to 20 per cent.                                                                                                                                                                                                 |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                                                                     | 24. The manufactured article was at a very reduced price up to the year 1830, first, owing to want of sufficient protection, and then to an excessive importation, in consequence of the prospective duty.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                             | 25. This question is one that I cannot answer. It has been so fully examined by those extensively engaged in manufacturing operations, that I shall not attempt it.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 26. Is any change necessary in levying or collecting duties on such articles to prevent fraud?                                                                                                                                                         | 26. This also has been fully examined by those who have given the subject more attention than I have.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| QUESTIONS.                                                                                                                                                                                                                              | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>27. What portion of the cost of your manufactures consists of the price of the raw material; what portion of the wages of labor, and what portion of the profits of capital?</p>                                                     | <p>27. The cost of the raw material is about two-thirds of the cost of the manufactured article, and the labor one-third. The profit depends on the price of the article in market, which I have before estimated at about ten per cent. on the capital. I do not, in my computation of cost, add any thing for profit or interest on capital.</p>                                           |
| <p>28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?</p>                                                                                  | <p>28. The whole quantity of wool consumed, together with most articles requisite for the support of the hands employed. Dye stuffs and oil are imported.</p>                                                                                                                                                                                                                                |
| <p>29. What quantity or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?</p>                                                                                                  | <p>29. This question I am unable to answer.</p>                                                                                                                                                                                                                                                                                                                                              |
| <p>30. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to <math>12\frac{1}{2}</math> per cent., would it cause you to abandon your business, or would you manufacture at reduced prices?</p> | <p>30. It would be utterly impossible, in the present state of things, to sustain the operations if such reduction should take place. The answer to this question, with the additional part, is contained in a note marked A.</p>                                                                                                                                                            |
| <p>31. If it would cause you to abandon your business, in what way would you employ your capital?</p>                                                                                                                                   | <p>31. The capital invested in buildings and machinery cannot be recalled, but must be lost if the business should be abandoned.</p>                                                                                                                                                                                                                                                         |
| <p>32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to <math>12\frac{1}{2}</math> per cent.?</p>                                            | <p>32. There would be no profit or even safety attending the business, and the whole amount invested in buildings and machinery must be abandoned as a total loss.</p>                                                                                                                                                                                                                       |
| <p>33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent., and how gradual should the reduction be?</p>                                                        | <p>33. Competition will soon reduce the profit to the lowest amount for which the article can be afforded without a reduction of duty. The great attention paid to rearing sheep, will, in a short time, furnish wool in abundance; and the increased manufacturing population will induce the investment of sufficient capital to reduce profit to as low a sum as will invite capital.</p> |
| <p>34. Average profit of money or capital in your county?</p>                                                                                                                                                                           | <p>34. This question has been before answered. The interest of seven per cent. is the fair price of money, and probably the fair profit of capital.</p>                                                                                                                                                                                                                                      |
| <p>35. Average rate of wages in your county?</p>                                                                                                                                                                                        | <p>35. Men <math>62\frac{1}{2}</math> cents per day, supporting themselves, or 10 dollars per month, and fed by the employer. Women, 1 dollar per week, and found.</p>                                                                                                                                                                                                                       |

*Note A, to Question 30.*—If the duty upon the foreign manufacture, of the kind of goods which you make, were reduced to  $12\frac{1}{2}$  per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you manufacture at reduced prices?

The substance of the answer I have given to this, without the addition, is, that we could not continue our manufacturing operations at all, but would be broken down irretrievably. The present addition to the question, "with corresponding reduction on all the imports," carries with it a wider range of inquiry, but must terminate in the same result at the present time. A naked opinion, on such an important question of policy, must either receive its weight from the high commercial, and candid character of the individual giving it, or will justly be regarded as if never uttered, merely useless. To reason on it, at length, is im-

## DOCUMENT 10.—No. 27—Continued.

possible, with justice to the subject, in this way. If your question means a "corresponding" ratio of reduction, so as to keep the objects acted on still proportionably distant, it would present a subject very difficult to be adjusted, and then we must examine the relative prices of the articles we consume, and those we furnish, with reference to such alteration, together with the very important and controlling consideration, the relative strength derived from capital, and the price for its use, compared with that abroad; also the proper measures for its introduction and regular increase, and consequent decrease of price for its use.

The other questions proposed by General Dix, to be answered, are—"1st. Is any change necessary, in levying and collecting the duty on imported woollens, to prevent fraud? 2d. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum? 3d. What would be the operation of this change upon the frauds at present supposed to be practised? 4th. Extent of individual and household manufacture in Madison county, and how much it has increased since the tariff of 1824? 5th. Do the persons employed at your manufactory board themselves, and what do they pay per week?" The three first questions requiring answers, expressive of our opinion on policy, founded on information possessed by others more fully than I have, will prevent my answering in detail. The relative value of minimum and ad valorem duty as a mean of protection, and a measure of justice, has been also fully discussed, and is well understood. There are difficulties attending both, and most political men have reason sufficient to prefer one or the other mode, as they have been led by inclination, without perhaps being fully aware of the power by which the judgment was controlled. The law of minimums must necessarily operate very unequally. The inequality of the burden is increased in proportion as the standard is approximated by the value of the article at the place of origin or production. The law can, however, probably be more easily enforced, and there is less danger of corruption and fraud than by an ad valorem duty. An ad valorem duty, depending on invoice, is wholly out of Government control, and liable to unavoidable frauds. An ad valorem duty, depending on appraisement at the place of importation, would probably lead to the most demoralizing and extensive corruption.

I have not accurate information sufficient to answer your fourth question.

To the fifth, I answer, that all persons in my factory board themselves, and pay from one dollar to one dollar and twenty-five cents per week board.

J. B. YATES.

Mr. Yates was formerly a member of Congress from Schenectady county, and is a highly intelligent and respectable man. His statement is entitled to entire credit.

J. A. DIX.

## DOCUMENT 10.—No. 28.

*The Oriskany Manufactory of Cloths and Cassimeres, situate in the town of Whitestown, in the County of Oneida, in the State of New York, March, 1832.*

| QUESTIONS.                                                              | ANSWERS.                                                                                                                                                                                                           |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                           | 1. Exclusively water power.                                                                                                                                                                                        |
| 2. When established, and whether a joint stock concern?                 | 2. Established in 1811. Incorporated in that year, with the usual privileges.                                                                                                                                      |
| 3. Capital invested in ground and buildings, water power and machinery? | 3. Capital, \$200,000, divided into 2,000 shares of \$100 each. One-half of this sum has been paid on 1,647 shares. The capital paid in is somewhat more than \$90,000, as the forfeited stock was partly paid up. |

## DOCUMENT 10.—No. 28—Continued.

| QUESTIONS.                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                                                         | 4. I cannot be accurate as to the average amount. The average amount paid in 1831 for wool, was about \$80,000; for wages, \$18,500; for fuel, \$825; flour, 250 barrels, say \$1,500; olive oil, 2,800 dollars; sperm oil, \$500; dye stuffs, \$2,200; soft soap, \$1,350; chamber ley, \$325; hard soap, \$500; teazles, \$975; amounting, including many articles not named, to \$111,610. |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory?                                                                         | 5. There has been no annual rate of profits. This company has been very unfortunate, indeed. The last sales of stock were made at \$5 per share. On each share there had then been paid, \$44 50. Judge A. Spencer, P. S. Parker, and Francis Boodgood, three of our largest stockholders, all sold at that price.                                                                            |
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                             | 6. The company borrow money generally, to purchase wool, of the banks at Utica. They borrowed upwards of \$40,000 for that purpose last summer, at 6 per cent. interest.                                                                                                                                                                                                                      |
| 7. What has been the rate of profits annually for the last three years? If a joint stock company, what dividends have been received?                                 | 7. In 1829 the company lost money. In 1831 a profit to the amount of about \$20,000 was made. Both cloths and wool advanced greatly on our hands. In June, 1830, we purchased about 100,000 lbs. of wool, which advanced 12 to 15 cents per pound. Our business for 1831 is not yet closed, and we have about \$30,000 worth of goods ice-bound in Albany, made from dear wool.               |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and therefore not annually divided? | 8. This question would seem to have been answered by the answer to No. 5. We did make improvements, however, in 1830, and some in 1831, instead of paying our debts. No part of our profits were used in any other way. They could not have been divided, as our original capital is more than one-half sunk.                                                                                 |
| 9. Causes of the increase (or decrease) of profit at different periods of time?                                                                                      | 9. There never was any profit, except in 1830, and perhaps in 1831; because the business was very bad, with too much competition, both foreign and domestic.                                                                                                                                                                                                                                  |
| 10. Rates of profit on capital otherwise employed in the same county and State?                                                                                      | 10. I cannot give a satisfactory answer to this question. I should suppose that the rates of profit would vary from 6 to 10 per ct.                                                                                                                                                                                                                                                           |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                               | 11. This question I cannot answer, as my predecessors left no data on which I can make the estimates.                                                                                                                                                                                                                                                                                         |

## QUESTIONS.

12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?

13. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?

14. Number of men, women, and children, employed, and average wages of each class?

15. How many hours a day employed, and what portion of the year?

16. Rate of wages of similar classes otherwise employed in the same State and county?

17. Number of horses or other animals employed?

18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?

## ANSWERS.

12. We annually consume about 120,000 pounds of wool; 4,000 pounds of milk-weed; 3,000 pounds quercitron, weld, and other dyes of domestic growth, exclusive of copperas. We now use about 3,000 pounds American copperas; 1,100 pounds glue and pates, besides the other materials mentioned in answer to No. 4. Of foreign materials, say 2 cases indigo; 5 or 6 barrels of madder; 8 or 900 pounds tartar, &c.; 3,000 gallons olive oil, and about 500 gallons sperm oil; about 3 tons of iron and steel nails; 60 tons logwood, fustic, and other foreign dyes, &c. Amount of domestic products, about 140,000 pounds, value about \$95,000; of foreign articles, 63 tons, value about \$6,000.

13. We manufacture broadcloth and kerseymeres. Such cloths as we chiefly manufacture, would cost the importer about \$2 75, if the duties were fairly paid. Our goods brought us that price in October. In December, we sold at \$2 50, and now at \$2 25. Similar goods are imported from England, France, and Germany, as I believe. These cloths are worth about 7s. to 8s. 6d. sterling, running measure, in England.

14. We have 14 boys in our employ, under 16 years of age; 17 between 16 and 21 years; 42 who are over 21 years; in all, 73 males. We have 18 girls under 16, and 56 females upwards of 16 years of age; in all, 74 females; total, 147 persons. The wages of the girls, under 16, will average about \$1 50 per week; the wages of the other females, (mostly weavers,) is not less than \$2 50 per week; the wages of boys, under 16, average \$1 75; from 16 to 21, average wages, \$3 25; men's wages average from 70 to 75 cents per day; board of females and boys, \$1 per week; men, \$1 50, paid by themselves.

15. The hands are employed 12 hours each day, and we work every week day, except about four days in the year.

16. I believe that able bodied men obtain about \$120 per annum; full grown girls generally receive about \$1 per week for doing house work. In these cases they are boarded. Our hands board themselves. Children, under 16, cannot obtain wages; their board and washing is generally considered of about as much value as their labor.

17. Two horses.

18. We generally sell to the merchants of the vicinity, a market for about \$20,000 worth of goods; and we exchange about \$10,000 worth in payment for wool, and other materials, and for labor. The residue are sent to New York principally.

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?                                                                                                                              | 19. Foreign cloths, of nearly similar kind, do enter into competition with them in New York.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 20. Where are the manufactures consumed?                                                                                                                                                                                                               | 20. In every part of the United States probably.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                                                                   | 21. I do not believe that any of our goods were ever exported.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                 | 22. Our goods are mostly sold by a commission house in New York, on a credit of eight months; sales guaranteed. A part, say \$5,000 worth, are bartered for wool, and about an equal sum for wood, soap, labor, &c. &c.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23. The cost of manufactures has greatly decreased. The same goods that now pay us a small profit, at \$2 25, cost us \$3 50 in 1820, and at least \$7 in 1811, '12, '13, and '14. In 1814 our wool cost us, on an average, \$1 15 seventh-tenths per pound. In 1827, only 31 cents. In 1831, about 67 cts. I cannot say what the progressive increase or decrease may have been, as I have not the requisite data on which to found an estimate; undoubtedly the cost has greatly lessened, in consequence of the improvements in machinery.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                                                                     | 24. In 1812 our cloths readily brought us 8 to 10 dollars per yard; in 1813, \$12; in 1814, \$12; in 1815, \$7 to \$9; 1816, '17, \$3 to \$4; in 1818, \$3 10 to \$3 40; in 1819, cloths brought \$3 to \$4 25; cassimeres \$1 55 to \$1 65; 1822, cloths \$3 to \$3 50; cassimeres \$1 40 to \$1 70; 1823, cloths \$2 80 to \$3 15; cassimeres \$1 10 to \$1 45; 1824, cloths \$3 to \$3 1/2; cassimeres \$1 1/2 to \$1 1/2; 1825, cloths \$2 1/2 to 3 1/2; 1826, \$2 to \$3 for cloths; 85 cents to \$1 75 for cassimeres; 1827, \$2 25 to \$3 75 for cloths; 90 to 14 cts. for cassimeres; 1828, cloths \$1 75 to \$3 40; cassimeres 80 to 115 cts.; 1829, cloth \$1 45 to \$3; cassimeres 62 cts. to \$1 05; 1830, \$1 60 to \$3 25 for cloths; 70 cts. to \$1 10 for cassimeres; 1831, cloths \$2 25 to \$3 75; cassimeres \$1 10 to \$2. We make two qualities of cloths and cassimeres; the lowest price is handsome and strong, the other descriptions, superfine, and in less quantity. |
| 25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                             | 25. In case the raw material could be obtained here as cheap as it is obtained by the European manufacturer, a duty of 40 per cent. ad valorem honestly paid, would be an abundant protection, and much more than we now receive, in my opinion. I am not certain but a duty of 30 per cent. would be a protection ultimately, if fairly paid, and stock should be as low here as abroad. The benefits of the tariff of 1828, so far as wool and woollens are concerned, has only been to the wool-grower as yet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## DOCUMENT 10.—No. 28—Continued.

| QUESTIONS.                                                                                                                                                                                                      | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>26. Is any change necessary in levying or collecting duties on such articles to prevent fraud?</p>                                                                                                           | <p>26. I have no doubt that the laws may be more rigidly enforced in New York than they have been; but, were I competent to suggest a feasible plan, I have not space here.</p>                                                                                                                                                                                                                                     |
| <p>27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?</p>                             | <p>27. In our business, the cost of the materials used in manufacture have constituted about two-thirds, and the cost of labor something over one-third, say two-fifths; thus running us in debt every year until 1830 and 1831. In 1830, the cost of materials was about 50 per cent., labor 30 per cent., and profit 20 per cent.; from which was to be deducted wear and tear, 8 per cent.</p>                   |
| <p>28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?</p>                                                          | <p>28. Probably we consume about 30,000 dollars of the productions of this county, and about \$65,000 of produce from other parts of the United States. Accuracy cannot be attained in this case.</p>                                                                                                                                                                                                               |
| <p>29. What quantity or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?</p>                                                                          | <p>29. To this question I can give no answer on which much reliance can be placed.</p>                                                                                                                                                                                                                                                                                                                              |
| <p>30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent.; would it cause you to abandon your business, or would you manufacture at reduced prices?</p> | <p>30. I do not hesitate to say we should be compelled to abandon the business at once.</p>                                                                                                                                                                                                                                                                                                                         |
| <p>31. If it would cause you to abandon your business, in what way would you employ your capital?</p>                                                                                                           | <p>31. As this company possesses no capital, not invested in buildings and machinery, and have not personal property enough to pay the corporate debts, the question does not admit of an answer.</p>                                                                                                                                                                                                               |
| <p>32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent.?</p>                                           | <p>32. The cotton manufacturing business is incomparably better than this now. I should endeavor, therefore, to obtain cotton machinery in place of the woollen; there could not be any profit, but would necessarily be a great loss were the duties thus reduced. Even should the raw material fall very low, such a flood of foreign goods would be introduced, that we should abandon the business at once.</p> |
| <p>33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent., and how gradual should the reduction be?</p>                                | <p>33. I am quite certain that the duty cannot be safely lessened on any description of woollens, unless a corresponding reduction is made in the duty on olive oil, wool, indigo, &amp;c.</p>                                                                                                                                                                                                                      |
| <p>34. Average profit of money or capital in your county?</p>                                                                                                                                                   | <p>34. Probably from six to 10 per cent.</p>                                                                                                                                                                                                                                                                                                                                                                        |
| <p>35. Average rate of wages in your county?</p>                                                                                                                                                                | <p>35. Laboring men, 120 dollars per annum; women, 1 dollar per week, and found.</p>                                                                                                                                                                                                                                                                                                                                |

S. NEWTON DEXTER,  
*Agent of the Oriskany Manufacturing Company.*

ORISKANY, March 20, 1832.

This statement is made by Mr. S. Newton Dexter, who is well known to many members of Congress, and probably to the department.

J. A. DIX.



## DOCUMENT 10.—No. 29.

*Manufactory of Wool, situate in the town of Brownville, in the County of Jefferson, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                                                                                                                                          | 1. Water power.                                                                    |
| 2. When established, and whether a joint stock concern?                                                                                                                                                                                                | 2. In 1824. Joint stock.                                                           |
| 3. Capital invested in ground and buildings, water power and machinery?                                                                                                                                                                                | 3. Ten thousand dollars.                                                           |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                                                                                                                                           | 4. About 5,400 dollars.                                                            |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory?                                                                                                                                                           | 5. Less than legal interest.                                                       |
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                                                                                                               | 6. Three thousand dollars, at 7 per cent.                                          |
| 7. What has been the rate of profits annually for the last three years? If a joint stock company, what dividends have been received?                                                                                                                   | 7. No. 5.                                                                          |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and therefore not annually divided?                                                                                   | 8. A small portion.                                                                |
| 9. Causes of the increase (or decrease) of profits at different periods of time?                                                                                                                                                                       | 9. Fluctuation in price of material.                                               |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                 | 11. 5,000 yards satinets, 75 cents, \$3,750. Besides about \$4,000 of custom work. |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                                                                                                           | 12. Wool and cotton and oil \$2,600<br>Dye-stuffs and other foreign products 400   |
| 14. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                      | 14. 10 men; average wages \$20 per month.                                          |
| 15. How many hours a day employed, and what portion of the year?                                                                                                                                                                                       | 15. 12 hours.                                                                      |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                                                                                                  | 16. About \$ 16.                                                                   |
| 17. Number of horses or other animals employed?                                                                                                                                                                                                        | 17. Four horses.                                                                   |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                                                                                                | 18. Principally at the manufactory. Part are sent to New York.                     |
| 20. Where are the manufactures consumed?                                                                                                                                                                                                               | 20. Principally in the county.                                                     |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                 | 22. Some cash; a good deal bartered for agricultural products.                     |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23. Increased last year from the high price of wool.                               |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                                                                     | 24. Prices have not varied essentially.                                            |

## DOCUMENT 10.—No. 29—Continued.

| QUESTIONS.                                                                                                                                                                                               | ANSWERS.                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                             | 27. Of a yard of satinete, 50 cents for materials, 18 cents for wages, 7 cents profits and wear and tear. |
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?                                                          | 28. About \$2,000 of agricultural produce.                                                                |
| 30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices? | 30. We could not go on.                                                                                   |
| 31. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                           | 31. It would be a total loss.                                                                             |
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent?                                            | 32. Almost any other business.                                                                            |
| 33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent., and how gradual should the reduction be?                                | 33. The business will bear no reduction.                                                                  |

BROWNVILLE, March 21, 1832.

DRAKE &amp; STACY.

## DOCUMENT 10.—No. 30.

*Manufactory of Woollen, situate in the town of Watertown, in the County of Jefferson, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                   | ANSWERS.                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                | 1. Water power.                                                                                                                                                                                                                                                                                                            |
| 2. When established; and whether a joint stock concern?                                      | 2. In 1823. Individual concern.                                                                                                                                                                                                                                                                                            |
| 3. Capital invested in ground and buildings, water power and machinery?                      | 3. Twen'y-five thousand dollars, or more.                                                                                                                                                                                                                                                                                  |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages? | 4. Say twelve thousand dollars.                                                                                                                                                                                                                                                                                            |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory. | 5. Hard to say; some years the profit has been 10 to 15 per cent.; some others, with same economy, there has been a loss of 6 to 8 per cent. Market having been governed by foreign goods and influence and fraudulent entries, the business has been altogether the most uncertain and fluctuating business of any other. |
| 6. How much of the capital is borrowed, and what interest is paid on it?                     | 6. About \$8,000, at 7 per cent.                                                                                                                                                                                                                                                                                           |

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7. What has been the rate of profits annually for the last three years? If a joint stock company, what dividends have been received?                                                                                                                   | 7. In 1829 profits were from 8 to 10 per cent.; in 1830 losing business with me; in 1831 closes up about even.                                                                                                                                                                                                    |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and therefore not annually divided?                                                                                   | 8. All the profits have been expended in machinery and real property attached to the mill.                                                                                                                                                                                                                        |
| 9. Causes of the increase (or decrease) of profit at different periods of time?                                                                                                                                                                        | 9. Over-importations and fraudulent entries.                                                                                                                                                                                                                                                                      |
| 10. Rates of profit on capital otherwise employed in the same county and State?                                                                                                                                                                        | 10. Not easy told.                                                                                                                                                                                                                                                                                                |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                 | 11. Now manufacturing about 35,000 yards per year, cassimere, satinets, and flannels, worth last year, on an average, satinets 5 shillings, cassimeres \$1, flannels 28 cents.                                                                                                                                    |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                                                                                                           | 12. Twenty thousand pounds of wool, all American, average market value, last year, sixty cents.                                                                                                                                                                                                                   |
| 14. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                       | 14. Twenty-three men, including machine shop, average wages one dollar per day; sixteen girls, average wages thirty-eight cents per day; four children at 25 cents per day.                                                                                                                                       |
| 15. How many hours a day employed, and what portion of the year?                                                                                                                                                                                       | 15. About twelve hours per day, and the whole year.                                                                                                                                                                                                                                                               |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                                                                                                  | 16. Men in mechanical business generally about the same, some higher. Girls about the same.                                                                                                                                                                                                                       |
| 17. Number of horses or other animals employed?                                                                                                                                                                                                        | 17. Six horses.                                                                                                                                                                                                                                                                                                   |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                                                                                                | 18. Sent three hundred miles.                                                                                                                                                                                                                                                                                     |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale?                                                                                                                                                  | 19. They do.                                                                                                                                                                                                                                                                                                      |
| 20. Where are the manufactures consumed?                                                                                                                                                                                                               | 20. In the United States.                                                                                                                                                                                                                                                                                         |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                                                                   | 21. Not any of them exported.                                                                                                                                                                                                                                                                                     |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                 | 22. Generally at eight months' credit.                                                                                                                                                                                                                                                                            |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23. The cost of the manufactured article to the manufacturer has increased for two years past very materially; the increased cost has been wholly caused by the great advance in price of wool.                                                                                                                   |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                                                                     | 24. Difficult to answer correctly; price has always been upon the wing; there has been a difference of one hundred per cent. some years from others since the establishment has been in operation.                                                                                                                |
| 25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                             | 25. Cannot say; but the rate of duty is, perhaps, not so essential as that it should be strictly collected upon all the goods entered, as fraudulent entries keep the market constantly in an unsettled state, and the manufacturer is left in uncertainty whether he is to make or lose money by his operations. |

| QUESTIONS.                                                                                                                                                                                                            | ANSWERS.                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 26. Is any change necessary in levying or collecting duties on such articles to prevent fraud?                                                                                                                        | 26. Better answered by the collecting officers of custom: something is evidently necessary, either law or vigilance, to enforce the present, so as to prevent the tremendous frauds committed and committing upon the revenue.                                                                              |
| 27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                          | 27. At the present time $\frac{1}{2}$ raw materials, 5-16 labor, 1-16 profit, after deducting repairs, wear and tear of machinery, and decay of buildings, which, in woollen business, is a heavy item.                                                                                                     |
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?                                                                       | 28. Agricultural products, except wool, two thousand dollars; other domestic productions say two thousand five hundred dollars.                                                                                                                                                                             |
| 29. What quantity or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?                                                                                       | 29. Cannot say.                                                                                                                                                                                                                                                                                             |
| 30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12 $\frac{1}{2}$ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices? | 30. It would cause an abandonment at once.                                                                                                                                                                                                                                                                  |
| 31. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                        | 31. Capital being invested in machinery and buildings, which are unfit for other uses, consequently would be unavailable and would be almost a total loss.                                                                                                                                                  |
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12 $\frac{1}{2}$ per cent.?                                           | 32. There would be, unquestionably, a heavy loss in manufacturing if the imposts were reduced to 12 $\frac{1}{2}$ per cent.; if I had my capital out of the woollen business, I would invest it in almost any kind of business the country presents in preference to the woollen business as it now stands. |
| 33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent., and how gradual should the reduction be?                                             | 33. The capital employed in the woollen business does not now yield a net profit of six per cent., after deducting repairs, wear and tear of machinery, and decay of buildings.                                                                                                                             |
| 34. Average profit of money or capital in your county?                                                                                                                                                                | 34. Cannot say; probably from six to ten per cent.                                                                                                                                                                                                                                                          |
| 35. Average rate of wages in your county?                                                                                                                                                                             | 35. Mechanics one dollar per day, farmers seventy-five cents.                                                                                                                                                                                                                                               |

WATERTOWN, March 24, 1832.

L. KIMBALL.

## DOCUMENT 10.—No. 31.

*Manufactory of Indian Blankets, situate in the town of Buffalo, in the County of Erie, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                                                          | 1. Water.                                                                                                                                                                                                                                                          |
| 2. When established; and whether a joint stock concern?                                                                                                                | 2. Established 1830. Incorporated company.                                                                                                                                                                                                                         |
| 3. Capital invested in ground and building, water power and machinery?                                                                                                 | 3. Ten thousand dollars.                                                                                                                                                                                                                                           |
| 4. Average amount in materials, in cash for the purchase of materials and payment of wages?                                                                            | 4. Twelve thousand dollars per annum.                                                                                                                                                                                                                              |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory?                                                                           | 5. It being a new concern, could not say.                                                                                                                                                                                                                          |
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                               | 6. From \$2,000 to \$4,000; generally seven per cent. interest.                                                                                                                                                                                                    |
| 7. What has been the rate of profits annually for the last three years? If a joint stock company, what dividends have been received?                                   | 7. No dividends as yet; probably owing to the high price of coarse wool, which is used in the manufacture of our kind of goods.                                                                                                                                    |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and, therefore, not annually divided? | 8. Trifling portion, if any.                                                                                                                                                                                                                                       |
| 9. Causes of the increase (or decrease) of profit at different periods of time?                                                                                        | 9. Explained in No. 7.                                                                                                                                                                                                                                             |
| 10. Rates of profit on capital otherwise employed in the same county and State?                                                                                        | 10. Various; probably from six to 50 per cent. per annum. The question is understood to relate to other kinds of business than manufacturing.                                                                                                                      |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                 | 11. A new concern, about \$18,000. Blankets, quality said to be fully equal to the British Whitney or 3 point Indian blankets, for which they are a substitute; value about \$6 per pair.                                                                          |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                           | 12. 30,000 lbs. wool, about \$9,000 worth, or rising. The prices since the tariff of 1828, about equal. Before the tariff of 1828 the foreign wool, suitable for the manufacture of our kind of goods, could be obtained for about one half of the present prices. |
| 13. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                        | 13. Similar articles (blankets) \$6 per pair, frequently \$6 50 to \$7 per pair, imported from England.                                                                                                                                                            |
| 14. Number of men, women, and children employed, and average wages of each class?                                                                                      | 14. Six men, average wages 90 cents per diem; eight women, average wages 48 cents per day.                                                                                                                                                                         |
| 15. How many hours a day employed, and what portion of the year?                                                                                                       | 15. Twelve hours on an average, or nearly, the year through.                                                                                                                                                                                                       |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                  | 16. The men would probably receive about the same wages at other employments; the women about two-thirds as much.                                                                                                                                                  |
| 17. Number of horses or other animals employed?                                                                                                                        | 17. None.                                                                                                                                                                                                                                                          |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                | 18. A moiety at home; the rest sent to New York, Philadelphia, Detroit, &c. from three hundred to six hundred miles.                                                                                                                                               |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale?                                                                  | 19. Articles of similar kind of foreign manufacture compete with us at each of the above places of sale.                                                                                                                                                           |

## DOCUMENT 10.—No. 31—Continued.

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20. Where are the manufactures consumed?                                                                                                                                                                                                               | 20. Generally among the different tribes of Indians, some for the United States' Government for the army.                                                                                                                                                                                                                                                                 |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                                                                   | 21. None exported.                                                                                                                                                                                                                                                                                                                                                        |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                 | 22. Generally on a credit of six months.                                                                                                                                                                                                                                                                                                                                  |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23. Statu quo, the price of wool arose to its present high state about the time the factory went into operation, 1830. (Since we commenced in 1830.)                                                                                                                                                                                                                      |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                                                                     | 24. From \$5 50 per pair to \$6 00.                                                                                                                                                                                                                                                                                                                                       |
| 25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                             | 25. Not any protection, but from the flood of capital of the British manufacturer; provided wool could be obtained as cheap here as in England; otherwise the present rate of duties on the manufactured article are quite low enough.                                                                                                                                    |
| 26. Is any change necessary in levying or collecting duties on such articles to prevent fraud?                                                                                                                                                         | 26. Perhaps we are not sufficiently acquainted with the present mode to answer, but should say the foreign article should be appraised in this country.                                                                                                                                                                                                                   |
| 27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                           | 27. From \$9,000 to \$10,000 materials; \$3,000 for labor; say \$500 for transportation. It should be observed that three of the owners out of four are operatives and labor for the concern, thereby manufacturing much cheaper than though all the operatives were hired. Reasonable wages for the three owners will absorb all there is left from materials and wages. |
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?                                                                                                        | 28. From two to three thousand dollars' worth.                                                                                                                                                                                                                                                                                                                            |
| 29. What quantity or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?                                                                                                                        | 29. We believe there is but one other in the United States for the manufacture of army blankets, near Philadelphia.                                                                                                                                                                                                                                                       |
| 30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices?                                               | 30. It would, unless the duty on coarse foreign wool was removed with it: as it now stands it is about 70 per cent. against us.                                                                                                                                                                                                                                           |
| 31. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                         | 31. Should the duty on blankets be removed, and wool be protected, we should be ruined: we should have no capital to be employed in other pursuits.                                                                                                                                                                                                                       |
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent.?                                                                                         | 32. Undoubtedly, if we engaged in any.                                                                                                                                                                                                                                                                                                                                    |

## DOCUMENT 10.—No. 31—Continued.

| QUESTIONS.                                                                                                                                                                  | ANSWERS.                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent., and how gradual should the reduction be? | 33. It will be perceived that they (duties) cannot be reduced from the present rate to yield us any profit. |
| 34. Average profit of money or capital in your county?                                                                                                                      | 34. Seven per cent.                                                                                         |
| 35. Average rate of wages in your county?                                                                                                                                   | 35. From \$10 to \$20 probably per month.                                                                   |

## DOCUMENT 10.—No. 32.

*Manufactory of Woollen, situate in the town of Sidney, in the County of Delaware, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                                                        | 1. By water power, taken from the Susquehannah river.                                                                                                                                                                                                                                                                                                       |
| 2. When established; and whether a joint stock concern?                                                                                                              | 2. Commenced business 1st Sept'r, 1827; owned by Jacob Crooker & Israel Williams, mechanics, who work at the business.                                                                                                                                                                                                                                      |
| 3. Capital invested in ground and buildings, water power and machinery?                                                                                              | 3. Whole capital invested, as we estimate it, in water privilege, buildings, and machinery, at seven thousand six hundred and fifty dollars.                                                                                                                                                                                                                |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                                                         | 4. This is difficult for us to make a correct statement; but, as near as we can calculate, we say fifteen hundred dollars.                                                                                                                                                                                                                                  |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory?                                                                         | 5. To this we answer, it falls considerably short of the interest of the money laid out.                                                                                                                                                                                                                                                                    |
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                             | 6. Fifteen hundred dollars borrowed, at seven per cent.                                                                                                                                                                                                                                                                                                     |
| 7. What has been the rate of profits annually for the last three years? If a joint stock company, what dividends have been received?                                 | 7. Finding our business afforded a very small profit, we, to enable ourselves to continue business, have done a considerable business of custom carding and cloth dressing, so that we are not able to say exactly what interest the manufacturing affords; but, as near as we can calculate, not more than three or four per cent. on the amount invested. |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and therefore not annually divided? | 8. This question needs not an answer from us.                                                                                                                                                                                                                                                                                                               |
| 9. Causes of the increase (or decrease) of profit at different periods of time?                                                                                      | 9. We should say to this question, being men of the laboring class, that labor was not sufficiently protected against foreign competition, but that the business is improving by means of the tariff.                                                                                                                                                       |
| 10. Rates of profit on capital otherwise employed in the same county and State?                                                                                      | 10. One of us, Crooker, is doing other business in farming and running of mills, which I think affords a profit of twenty per cent.                                                                                                                                                                                                                         |

DOCUMENT 10.—No. 32—Continued.

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                 | 11. We cannot answer this question, as we do not keep a statement separate of the different articles, but keep the amount of our sales in gross.                                                                                                                                                                                                                                                                         |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                                                                                                           | 12. We use about 4,500 lbs. domestic wool annually; other articles we cannot estimate on so short notice.                                                                                                                                                                                                                                                                                                                |
| 13. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                        | 13. We cannot, for want of information, answer this question.                                                                                                                                                                                                                                                                                                                                                            |
| 14. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                      | 14. Employ five men, average wages \$12 per month, and board them beside; and four women, average wages \$1 per week, and board them.                                                                                                                                                                                                                                                                                    |
| 15. How many hours a day employed, and what portion of the year?                                                                                                                                                                                       | 15. We employ our hands the whole year, and work about 12 hours per day.                                                                                                                                                                                                                                                                                                                                                 |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                                                                                                  | 16. Our best estimate is men at about \$10 at any other business beside their trade, and women at 6 shillings per week.                                                                                                                                                                                                                                                                                                  |
| 17. Number of horses or other animals employed?                                                                                                                                                                                                        | 17. This might amount to the use of one horse.                                                                                                                                                                                                                                                                                                                                                                           |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                                                                                                | 18. We retail about two-thirds at the factory; the remainder of our goods we sell at New York market, about 200 miles distant.                                                                                                                                                                                                                                                                                           |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale?                                                                                                                                                  | 19. They do, as we suppose, so as to cause them at sometimes to sell below the cost of making them.                                                                                                                                                                                                                                                                                                                      |
| 20. Where are the manufactures consumed?                                                                                                                                                                                                               | 20. Those we sell at New York market we cannot tell; but those we sell at home, are consumed by our neighbors.                                                                                                                                                                                                                                                                                                           |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                                                                   | 21. We do not know.                                                                                                                                                                                                                                                                                                                                                                                                      |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                 | 22. That portion we sell at New York market, for cash; at home, part on credit, for cash pay, and a part bartered for agricultural produce and fuel.                                                                                                                                                                                                                                                                     |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23. We cannot make any statement to, and return this to you in so short time as you have directed.                                                                                                                                                                                                                                                                                                                       |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                                                                     | 24. We cannot make a correct statement to this question, our sales have been so varying.                                                                                                                                                                                                                                                                                                                                 |
| 25. What rate of duty is necessary to enable the manufacturer to enter into competition, in the home market, with similar articles imported?                                                                                                           | 25. This question we cannot answer; but we have felt encouraged to continue a small business, in hopes that the present protection given by our General Government, with a vigilant eye by them to prevent fraud by foreigners, might improve to a better reward to our industry, in a few years; but we cannot tell how long the mechanics of England may continue to work for less than will support them comfortably. |
| 26. Is any change necessary in levying or collecting duties on such articles to prevent fraud?                                                                                                                                                         | 26. We are influenced to believe that much fraud is committed, and that much care should be taken by our Government to place men in such stations purely American.                                                                                                                                                                                                                                                       |



| QUESTIONS.                                                                                                                                                                                                            | ANSWERS.                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                          | 27. We could not make this calculation in so short time.                                                                                                                                      |
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?                                                                       | 28. This also would take more time than allotted to us; our business is very small.                                                                                                           |
| 29. What quantity or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?                                                                                       | 29. This question we are unable to answer.                                                                                                                                                    |
| 30. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to $12\frac{1}{2}$ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices? | 30. If the profit was any less than it now is, we could not continue it.                                                                                                                      |
| 31. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                        | 31. Such is the situation of our works, that if we had to abandon them, they would not raise any capital for any other business, but would be a dead loss to nearly their cost.               |
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to $12\frac{1}{2}$ per cent.?                                            | 32. We have done other business previous to this, and think that we never before engaged in any that afforded so small a profit; but with small capitals, it is difficult to change business. |
| 33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent., and how gradual should the reduction be?                                             | 33. We think we do not now realize 6 per cent.                                                                                                                                                |
| 34. Average profit of money or capital in your county?                                                                                                                                                                | 34. We cannot exactly answer this, but know that money will always command 7 per cent.                                                                                                        |
| 35. Average rate of wages in your county?                                                                                                                                                                             | 35. For men at agricultural pursuits, at about \$9 per month.                                                                                                                                 |

SIR: Your request, with the questions contained above, came to hand so late, (only four days before you requested it handed back, that is the 20th,) that I did all I could in one day, and intend sending it back the next.

Yours respectfully,

CROOKER & WILLIAMS.

It appears by the statement of the proprietors, that, after paying the legal interest (7 per cent.) on \$1,500 of borrowed money, they make but three or four per cent. on the \$7,650 invested in fixtures, although they are themselves the managers of the concern. This is far below the average rate of profit on small establishments, where the proprietors incorporate their own labor with the operations of their capital, and would hardly be equal to a compensation for their services alone. It is fair to infer that their actual profits have been greater, from the suggestion made by themselves, under question No. 7, that their "business of custom carding and cloth dressing" makes it difficult to give a certain reply.

J. A. DIX.

## DOCUMENT 10.—No. 33.

*SCHEDULE of Woollen Factories in the State of New York, for the year 1831, as far as returns have been received.*

| Names of Factories.             | Counties.  | Capital, includ-<br>ing stock and<br>goods. | Persons em-<br>ployed. | Wages.  |         | Wool used. | Value of wool. |         | Value of goods<br>manufactured. | Broad-cloth. |         | Kersey-mere. | Flannels and<br>baizes. |        | Satinets. | Cassimets, ker-<br>seys, and nar-<br>row cloth. | Carpeting. |
|---------------------------------|------------|---------------------------------------------|------------------------|---------|---------|------------|----------------|---------|---------------------------------|--------------|---------|--------------|-------------------------|--------|-----------|-------------------------------------------------|------------|
|                                 |            |                                             |                        | Dolla.  | Pounds. |            | Dolla.         | Dolla.  |                                 | Yards.       | Yards.  |              | Yards.                  | Yards. |           |                                                 |            |
| Glenham                         | Dutchess   | 140,000                                     | 130                    | 27,000  | 105,000 | 61,560     | 145,000        | 48,000  |                                 |              |         |              |                         |        |           |                                                 |            |
| Washington & Lagrange           | do         | 40,000                                      | 52                     | 12,708  | 46,000  | 27,600     | 51,250         | 20,500  |                                 |              |         |              |                         |        |           |                                                 |            |
| Moses Phillips                  | Orange     | 12,562                                      | 11                     | 2,147   | 9,720   | 6,190      | 15,000         | 6,000   |                                 |              |         |              |                         |        |           |                                                 |            |
| Orange Company                  | do         | 35,000                                      | 50                     | 2,470   | 14,000  | 7,700      | 15,750         | 7,000   |                                 |              |         |              |                         |        |           |                                                 |            |
| Franklin Company                | do         | 100,000                                     | 76                     | 14,000  | 6,000   | 3,000      | 66,500         |         |                                 |              |         |              |                         |        |           | 300                                             |            |
| Joseph Brooks                   | do         | 11,200                                      | 16                     | 1,510   | 7,000   | 3,350      | 6,000          | 2,600   |                                 |              |         |              |                         |        |           |                                                 |            |
| George Phillips                 | do         | 16,000                                      | 15                     | 2,640   | 20,930  | 14,232     | 20,930         | 8,372   |                                 |              |         |              |                         |        |           |                                                 |            |
| William Phillips                | do         | 18,000                                      | 19                     | 3,600   | 15,300  | 10,595     | 22,000         | 8,800   |                                 |              |         |              |                         |        |           |                                                 |            |
| Marlborough                     | Ulster     | 17,000                                      | 26                     | 4,600   | 16,600  | 9,000      | 20,125         | 7,000   |                                 |              |         |              |                         |        |           |                                                 |            |
| Penny                           | do         | 7,000                                       | 55                     | 4,797   | 12,897  | 6,506      | 20,717         | 2,736   |                                 |              |         |              |                         |        |           |                                                 |            |
| James U. Longbottoms            | do         | 14,500                                      | 24                     | 4,000   | 14,000  | 7,700      | 17,500         | 6,000   |                                 |              |         |              |                         |        |           |                                                 |            |
| Stuyvesant                      | Columbia   | 6,000                                       | 11                     | 2,040   | 18,000  | 9,000      | 15,120         | 10,800  |                                 |              |         |              |                         |        |           |                                                 |            |
| Great Falls                     | do         | 20,000                                      | 54                     | 3,650   | 28,000  | 11,600     | 30,000         | 3,000   |                                 |              |         |              |                         |        |           | 500                                             | 6,000      |
| Smith Town                      | Suffolk    | 10,000                                      | 17                     | 2,500   | 7,500   | 3,750      | 8,000          | 8,000   |                                 |              |         |              |                         |        |           | 138                                             |            |
| Babylon                         | do         | 16,000                                      | 24                     | 6,000   | 15,000  | 7,500      | 25,000         | 8,000   |                                 |              |         |              |                         |        |           | 1,500                                           |            |
| Milton                          | Saratoga   | 5,500                                       | 14                     | 1,200   | 8,000   | 1,960      | 4,000          |         |                                 |              |         |              |                         |        |           |                                                 |            |
| Rock City                       | do         | 12,000                                      | 18                     | 900     | 8,000   | 4,000      | 6,000          |         |                                 |              |         |              |                         |        |           | 3,150                                           |            |
| Hattsville                      | Putnam     | 2,000                                       | 14                     | 500     | 1,500   | 750        | 1,500          |         |                                 |              |         |              |                         |        |           | 1,500                                           |            |
| Livingston Flats                | Greene     | 400                                         | 9                      | 100     | 450     | 225        | 600            |         |                                 |              |         |              |                         |        |           |                                                 |            |
| Salem and Washington            | Washington | 4,000                                       | 8                      | 626     | 2,300   | 1,150      | 2,076          |         |                                 |              |         |              |                         |        |           | 1,000                                           |            |
| Owasco                          | Cayuga     | 20,000                                      | 56                     | 7,000   | 60,000  | 35,000     | 60,000         |         |                                 |              |         |              |                         |        |           | 90,000                                          |            |
| Total returns from 21 factories |            | 507,162                                     | 699                    | 104,288 | 417,197 | 232,308    | 543,068        | 138,808 | 432                             | 206,181      | 138,979 | 8,648        |                         |        |           |                                                 | 6,000      |

The figures with a star prefixed are assumed amounts.

DOCUMENT 10.—No. 33—Continued.

| Names of Factories.                                                                   | Counties.  | Capital, includ-<br>ing stock and |        | Persons em-<br>ployed. | Wages.  |           | Wool used. | Value of wool. |         | Value of goods<br>manufactured. | Broad-cloth. |         | Kersey-mere. | Flannels and<br>baizes. |        | Satinets. | Cassimets, ker-<br>seys, and nar-<br>row cloth. | Carpeting. |
|---------------------------------------------------------------------------------------|------------|-----------------------------------|--------|------------------------|---------|-----------|------------|----------------|---------|---------------------------------|--------------|---------|--------------|-------------------------|--------|-----------|-------------------------------------------------|------------|
|                                                                                       |            | Dolla.                            | Dolla. |                        | Dolla.  | Pounds.   | Dolla.     | Dolla.         | Yards.  | Dolla.                          | Yards.       | Yards.  | Yards.       | Yards.                  | Yards. |           |                                                 |            |
| Amount brought forward                                                                | -          | 507,162                           |        | 699                    | 104,288 | 417,197   | 932,308    | 543,068        | 138,808 |                                 |              |         |              | 432,286                 | 181    | 138,972   | 8,648                                           | 6,000      |
| James Upton                                                                           | Duchess    |                                   |        |                        | 8,000   | 26,750    | 14,047     | 30,000         | 12,000  |                                 |              |         |              |                         |        |           |                                                 |            |
| Thos. Williams & Son                                                                  | do         |                                   |        |                        | 2,471   | 5,000     |            |                | 7,500   |                                 |              |         |              |                         |        | 3,000     | 1,500                                           |            |
| J. & J. Wadsworth                                                                     | do         |                                   |        |                        | 1,825   | 7,000     |            |                | 8,500   |                                 |              |         |              |                         | 900    | 15,000    |                                                 |            |
| Cold Spring                                                                           | Duchess    | 33,000                            |        | 60                     |         | 15,000    |            |                | 12,000  |                                 |              |         |              |                         |        |           |                                                 |            |
| Pine Grove                                                                            | Rensselaer | 6,000                             |        | 15                     |         |           |            |                |         |                                 |              |         |              |                         |        |           |                                                 |            |
| Sand Lake                                                                             | do         | 6,000                             |        | 8                      |         |           |            |                |         |                                 |              |         |              |                         |        |           |                                                 |            |
| Cherevoys                                                                             | do         | 10,000                            |        | 12                     |         |           |            |                |         |                                 |              |         |              |                         |        |           |                                                 |            |
| McNamara & Co.                                                                        | do         | 45,000                            |        | 57                     | 6,800   | 50,000    | 30,000     | 52,000         |         |                                 |              |         |              | 130,000                 |        |           |                                                 |            |
| Troy                                                                                  | do         | 100,000                           |        | 122                    | 8,400   | 65,200    | 33,100     | 59,400         |         |                                 |              |         |              | 68,000                  |        | 60,080    |                                                 |            |
| J. A. Adams                                                                           | do         | 9,215                             |        | 15                     | 2,016   | 14,550    | 8,002      | 14,535         |         |                                 |              |         |              |                         |        | 25,500    |                                                 |            |
| Oriskany                                                                              | do         | 160,000                           |        | 147                    | 18,500  | 125,000   | 83,750     | 130,000        | 38,000  |                                 |              |         | 45,000       |                         |        | 5,000     |                                                 |            |
| Watertown                                                                             | Oneida     |                                   |        | 40                     | 6,200   | 30,000    |            |                |         |                                 |              |         | 6,000        | 20,000                  |        | 26,000    |                                                 |            |
| 23 factories in the western and<br>northern counties, as per S.<br>W. Dexter's return | Jefferson  |                                   |        | -                      | -       | 399,800   | -          | -              | 57,000  | 100,000                         | 60,000       | 196,000 |              |                         |        |           |                                                 |            |
| Crocker & Williams, Sidney                                                            | -          | 9,000                             |        | 28                     | 1,500   | 3,300     | 1,452      | 3,000          | 500     |                                 |              |         | 250          | 300                     |        | 1,500     | 1,000                                           |            |
|                                                                                       | -          | 895,377                           |        | 1,203                  | 160,000 | 1,158,797 | 402,659    | 832,003        | 274,308 | 151,682                         | 485,381      | 470,972 | 11,148       |                         |        |           |                                                 | 6,000      |

This schedule contains almost all the large woollen establishments in the State. There are in all, as appears by Williams' Register, 202, but the greater part of those not contained in the above are small establishments, engaged in manufacturing to a limited extent only, and depending very much on what is called "custom work," i. e. carding, dressing cloth manufactured in families, and taking wool to manufacture at "halves," the manufacturers and the persons furnishing the raw material sharing equally the manufactured article.

The above is a copy of an abstract furnished by Mr. Peter H. Schenck, of the city of New York, and made from original returns furnished by agents and proprietors of woollen establishments. I compared the original abstract with the original returns from which it was made, and found it to be correct.

J. A. D.

JOHN A. DIX.

## DOCUMENT 10.—No. 34.

*Schedule of Capital invested, description and quantity of Goods annually made, the quantity of all Materials annually used, and other particulars relative to Woollen Factories situated in the State of New York, for the year 1831.*

## Summary of returns from 54 Woollen Factories.

|                                                                                            |          |           |           |
|--------------------------------------------------------------------------------------------|----------|-----------|-----------|
| Wool used                                                                                  | lbs.     | 1,158,797 |           |
| Value of wool                                                                              |          |           | \$631,659 |
| Amount of capital invested, including the average annual amount of stock and goods on hand |          |           | 1,040,377 |
| Number of persons employed, viz.                                                           |          |           |           |
| Males under sixteen years of age                                                           |          |           |           |
| Males sixteen years and under twenty-one years                                             |          |           |           |
| Males twenty-one years and upwards                                                         |          | 1,433     |           |
| Females under sixteen years of age                                                         |          |           |           |
| Females sixteen years and upwards                                                          |          |           |           |
| Number of persons in families, exclusive of the above, but maintained by their wages       |          | 2,161     |           |
| Aggregate amount of wages                                                                  |          |           | 197,500   |
| Average amount of value of goods made                                                      |          |           | 1,297,003 |
| Quantity of broadcloth                                                                     | in yards | 274,308   |           |
| Quantity of flannels and baizes                                                            | "        | 485,381   |           |
| Quantity of kerseymere                                                                     | "        | 151,682   |           |
| Quantity of satinnet                                                                       | "        | 470,972   |           |
| Quantity of cassinet, kerseys, and other narrow cloth                                      | "        | 11,148    |           |
| Quantity of carpeting                                                                      | "        | 6,000     |           |

## Summary of returns from 30 Woollen Factories.

|                                                              |            |         |          |
|--------------------------------------------------------------|------------|---------|----------|
| Number of sets of cards in use                               |            | 83      |          |
| Quantity of cotton warps, &c.                                | in lbs.    | 32,974  | \$10,374 |
| Quantity of indigo                                           | "          | 10,178  | 13,824   |
| Quantity of pot and pearl ashes                              | "          | 13,449  | 803      |
| Quantity of woad                                             | "          | 9,891   | 675      |
| Quantity of madder, lac, dye, and cochineal                  | "          | 15,101  | 9,182    |
| Quantity of logwood, fustic, quercitron, and other dye woods | "          | 332,181 | 6,815    |
| Quantity of alum, vitriol, copperas, and other chemicals     | "          | 26,768  | 3,956    |
| Quantity of tartar, and all other drugs                      | "          | 4,559   | 719      |
| Quantity of block tin                                        | "          | 739     | 151      |
| Quantity of glue, pates, and pelts                           | "          | 45,149  | 2,320    |
| Quantity of olive oil                                        | in gallons | 13,879  | 13,227   |
| Quantity of sperm oil                                        | "          | 5,858   | 5,169    |
| Quantity of whale oil                                        | "          | 234     | 84       |
| Quantity of sweet oil                                        | in bottles | 248     | 79       |
| Quantity of hard soap                                        | in pounds  | 43,891  | 4,021    |
| Quantity of soft soap                                        | in barrels | 1,270   | 3,379    |
| Quantity of chamber ley                                      | "          | 3,482   | 2,186    |
| Quantity of teasels                                          | thousands  | 2,372   | 3,766    |
| Quantity of wrapping paper                                   | reams      | 143     | 347      |
| Quantity of lime and bran                                    | "          |         | 177      |
| Quantity of wood used for fuel                               | cords      | 2,697   | 6,635    |
| Quantity of mineral coal                                     | tons       | 120     | 679      |
| Tapes, thread, twine, sewing-silk, wick-yarn, tallow, &c.    |            |         | 1,026    |
| Boards, nails, tow-cloth, &c., used in packing               |            |         | 1,011    |
| Stationery, brooms, brushes, &c.                             |            |         | 715      |

## DOCUMENT 10.—No. 34—Continued.

|                                                                                                                |               |           |
|----------------------------------------------------------------------------------------------------------------|---------------|-----------|
| Materials used in repairs annually, viz. iron, steel, screws, wire,<br>nails, tacks, lumber, cards, reeds, &c. | -             | \$5,781   |
| Leather                                                                                                        | -             | 1,129     |
| Charcoal                                                                                                       | 3,547 bushels | 382       |
| Transportation, coastwise, chiefly inland, by rivers roads, and canals                                         | -             | 7,619     |
| Number of barrels of flour used by the families immediately connected with the factory                         | 2,124         | 11,590    |
| Aggregate amount                                                                                               | -             | \$117,820 |
| Amount of foreign materials, as stated in returns from 18 woollen<br>factories, including wool                 | -             | \$87,086  |

This was furnished by Mr. Peter H. Schenck, of New York, from original accounts received from woollen factories.

J. A. DIX.

## DOCUMENT 10.—No. 35.

ORISKANY, March 20, 1832.

DEAR SIR: Enclosed you have the questions propounded to me, with an answer of some sort to each. I should have been very happy to have had it in my power to give you more valuable information, and to have put the answers in better form. I am so much engaged in the business of the factory, particularly at this time, as our dam has been carried away by the flood, that I have not time to devote to the subject; and, I do not doubt but what I have been interrupted more than a hundred times since I commenced answering the questions, about which I have only been able to spend a few hours. I hope, therefore, you will make every allowance, and I beg you to believe that I have designed to be frank and full in every particular.

Very truly, and with respect, your friend, &c.,

S. NEWTON DEXTER, *Agent of Oriskany Co'y.*

JOHN A. DIX, Esq.

## DOCUMENT 10.—No. 36.

*Questions and Answers on the Woollen Manufactures at Oriskany, &c.—Answers by S. Newton Dexter.*

| QUESTIONS.                                                                                                                                                                                                       | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Is any change necessary in levying and collecting the duty on imported woollens to prevent fraud?                                                                                                             | 1. In answer to the first question, I have only to observe that, were the one dollar minimum stricken out, and practical men only appointed as appraisers, I do not question all difficulty of the kind now complained of would be at an end.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 2. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present, with the minimum? | 2. Should minimums be abolished, and the duties assessed on the actual value of cloths in the American ports, I should apprehend there would great difficulty arise in a variety of ways. The value of goods is vastly more fluctuating in a young country like ours, where there is not much capital, and where, consequently, a glut in the market often reduces the price from 15 to 30 per cent. in the course of three or four months, than in old and rich countries like England. Our ports are so distant from each other, that the price might be greatly reduced in Boston, and not at all in New Orleans; consequently there would be no equality in the duties assessed on the same articles at the different ports. |

## DOCUMENT 10.—No. 36—Continued.

| QUESTIONS.                                                                                                                                                                                                                                     | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                                                                             | 3. Undoubtedly the change in the system of assessing the duty would operate to prevent frauds, as at present practised. I am not prepared to say, however, that there would not be difficulties of that kind, even in this mode of assessing and collecting the revenue.                                                                                                                                                                                                                                                                                                                                    |
| 4. Extent of individual and household manufacture in Oneida county, and how much it has increased since the tariff of 1824?                                                                                                                    | 4. I do not know much about the quantity of individual and household manufacture in this county. I should incline to the belief, that this branch of manufacture had not increased at all since 1824.                                                                                                                                                                                                                                                                                                                                                                                                       |
| 5. Do the persons employed at your manufactory board themselves, and what do they pay per week?                                                                                                                                                | 5. All the persons employed in our manufactory board themselves. The men pay \$1 50; the women pay \$1; boys and girls the same price, \$1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 6. What are the component parts of the cost of a yard of broadcloth, which you sell for \$2 60; that is, how much of the cost consists of the price of the raw material, how much of the wages of labor, and how much of the \$2 60 is profit? | 6. Our cloths now sell for only \$2 25. It takes 2½ lbs. of wool to manufacture a yard; cost in 1831 65 cts. per yard, \$1 46<br>Dye stuffs, - - - 7<br>Soap, - - - 2½<br>Olive oil, - - - 6½<br>Fire wood, teazles, tape, paper, &c. 3<br>Labor of manufacturing, - - 72<br><hr/> \$2 37<br>Expense of selling, commission }<br>and guarantee, 5 per cent. } 12<br><hr/> \$2 49.                                                                                                                                                                                                                           |
| 7. What are the several proportions of cost of the raw material, wages of labor, expense of importation, duty, and profit of a yard of broadcloth of British manufacture of the same quality, which sells in the United States for \$2 60?     | These goods sold last year at \$2 75. I much fear they will this year sell as low as \$2. Wool has now fallen to 50 cents for such a quality. This would leave the cost at about \$2 17. We have introduced machinery, within a few months, that has lowered the cost of manufacturing 20 per cent.                                                                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                | 7. I am not sufficiently well apprised of the price of materials on labor in England, to give this question a proper answer. I have no doubt on my own mind, however, that if we could obtain the materials and the labor as low here as they are obtained in England, we could manufacture a good article as cheap in this country as in any part of the world. Our machinery is as good, or better. Our manufacturers, however, are not skilful enough to manufacture a very handsome article out of very bad materials, or, in other words, to make a very poor piece of cloth resemble a very good one. |

8. NEWTON DEXTER,  
Agent Oriskany Company.

ORISKANY, March 20, 1832.

## DOCUMENT 10.—No. 37.

*Manufactories of Iron, of the Peru Iron Company, situate in the town of Peru, in the County of Clinton, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                          | 1. The works consist of a forge of sixteen bloomery and anchor fires, a rolling mill, a chain cable, and a nail factory, and are propelled by water power.                                                                                                                                                                                                                                                                                                                                                   |
| 2. When established; and whether a joint stock concern?                                                                                | 2. The establishment was commenced as an individual operation in 1822. Incorporated by the Legislature in 1824, with a capital limited to \$200,000. \$75,000 was subscribed by the original stockholders, but, owing to bad management, it proved unprofitable, and they sold out at the end of a year at 50 per cent. The purchasers, in 1828, added a subscription of \$95,000, which, added to the reduced stock, would make a present investment of \$133,000. It is, of course, a joint stock concern. |
| 3. Capital invested in ground and buildings, water power and machinery?                                                                | 3. 120,000 dollars.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                           | 4. 100,000 dollars per annum.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory?                                           | 5. None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 7. What has been the rate of profits annually for the last three years? If a joint stock company, what dividends have been received?   | 7. None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 9. Causes of the increase (or decrease) of profit at different periods of time?                                                        | 9. Reduction of iron in Great Britain.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 11. 500 tons of bar iron made from ore, with 200 tons of the same purchased from other forges, made into 700 tons of nails, hoops, and bolt iron, average worth, 130 dollars per ton. During the year 1832, the annual product will be increased to 700 tons bar iron, with 400 tons from neighboring forges, making 1,000 tons nails, hoop iron, round and cut rods, and 100 tons anchors and chain cables.                                                                                                 |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                           | 12. 10,814 cords of wood, and 50 tons Virginia coals. No foreign raw or manufactured material used, except 500 dollars in foreign steel.                                                                                                                                                                                                                                                                                                                                                                     |
| 14. Number of men, women and children employed, and average wages of each class?                                                       | 14. 284 men employed. The nature of the business excludes female laborers. Common laborers, board included, receive 80 cents to 1 dollar per day. Artisans, after learning five years, receive from 125 cents to 175 cents per day.                                                                                                                                                                                                                                                                          |
| 15. How many hours a day employed, and what portion of the year?                                                                       | 15. Eleven hours, except bloomers, who average sixteen hours. The works are suspended by frost from manufacturing during the months of January and February.                                                                                                                                                                                                                                                                                                                                                 |

## DOCUMENT 10.—No. 37—Continued.

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17. Number of horses or other animals employed?                                                                                                                                                                                                        | 17. 113 horses and draft cattle employed.                                                                                                                                                                                                                                                                                                                                                                                                    |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                                                                                                | 18. The whole, or nearly so, of the manufactures of these works, are transported to, and sold in the city of New York, distance 300 miles. Cost of transportation, including 10 miles by land to Lake Champlain, 2 dollars; about 6 dollars per ton.                                                                                                                                                                                         |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale; and to what extent?                                                                                                                              | 19. Every article manufactured; nails perhaps to a less extent than bar and rolled iron, comes in direct competition with those of Europe.                                                                                                                                                                                                                                                                                                   |
| 20. Where are the manufactures consumed?                                                                                                                                                                                                               | 20. Nails are consumed exclusively in the United States. Rolled iron chiefly in bolts, rods, hoops, anchors, and cables, are applied to the purposes of commerce.                                                                                                                                                                                                                                                                            |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                                                                   | 21. None.                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                 | 22. Sold at an average credit of six months. None bartered.                                                                                                                                                                                                                                                                                                                                                                                  |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23. The cost of the manufactured article is less. The diminution has been gradual; is equal to 20 to 25 per cent during five years. It is the result of increased skill in the application of labor and machinery, and not of any diminution of the original cost of the raw material.                                                                                                                                                       |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                                                                     | 24. Average hoop iron:—1825, \$150; 1826, \$145; 1827, \$135; 1828, \$125; 1829, \$125; 1830, \$120; 1831, \$120. Average bolts:—1825, \$150; 1826, \$130; 1827, \$130; 1828, \$130; 1829, \$130, 1830, \$115; 1831, \$115. Chain cables, average:—1825, \$240; 1830, \$210. Anchors, average:—1825, \$170. Anchors, medium sizes:—1831, \$150.                                                                                              |
| 25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                             | 25. The present rates, with a law for the prevention of frauds, viz. that all articles manufactured in whole, of sheet, rod, hoop, bolt, or bar iron, or of which sheet, rod, hoop, bolt, or bar iron shall constitute the greatest weight, shall pay the same duty per pound that is now paid on sheet, rod, hoop, bolt, or bar iron, respectively. No partial manufacture of iron ought to change a specific duty into an ad valorem duty. |
| 30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent, would it cause you to abandon your business, or would you manufacture at reduced prices?                                                | 30. It would cause a total abandonment of the business.                                                                                                                                                                                                                                                                                                                                                                                      |
| 31. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                         | 31. The capital would be a total loss.                                                                                                                                                                                                                                                                                                                                                                                                       |



## DOCUMENT 10.—No. 37—Continued.

| QUESTIONS.                                | ANSWERS.                                                                                                                                                                                               |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 35. Average rate of wages in your county? | 35. For a laboring man, 12 dollars per month, exclusive of board. The board is 8 dollars per month. A young man, after five years' instruction, earns, including board, from \$1 25 to \$1 75 per day. |

This statement is furnished by Mr. N. Saltus, of New York, an importer of iron, and the agent of the Peru Company, from the books of the company, and personal interview with me in New York. There are in the packet marked "correspondence, &c.," two letters from Mr. Ezra Williams, postmaster at Clintonville, a highly intelligent man, and formerly agent of the company, containing much valuable information collected in the vicinity of the works. There is, also, in the same packet a printed paper, marked "statistics of the valley of the Au Sable," prepared with a view to a bank application, by gentlemen on whom implicit reliance may be placed. To this paper, and the letters of Mr. Williams, the attention of the department is respectfully invited.

J. A. DIX.

## DOCUMENT 10.—No. 38.

CLINTONVILLE, *March 13, 1832.*

Gen. JOHN A. DIX.

DEAR SIR: I wrote you by last mail, advising that you might expect by the present full replies to the interrogatories contained in the blank forms sent me. I regret that I am likely at last to disappoint those expectations; having learned from Mr. Burt, manager of the Peru Iron Co.'s Works at this place, that some of the most important items of the information sought for are not within his power to communicate, inasmuch as the books containing the final accounts of the company are kept at New York, under the immediate direction of the president (Francis Saltus, esq., 32 South st.) and board of directors. To him, therefore, recourse must be had, if the statement should be full upon all the points embraced in the queries.

Notwithstanding this obstacle to the prosecution of the duty confided to me, and at the risk of wasting a little time and paper upon a subject respecting which the information must be necessarily imperfect, I shall proceed to reply to such of the queries as I may be enabled to do, from the data within my control.

1. The works consist of a forge, rolling mill, chain cable and nail factories, and are propelled by water power.

2. The establishment was commenced as an individual enterprise, in 1822; incorporated by the Legislature in November, 1824, with a capital limited to \$200,000. \$75,000 was subscribed by the original stockholders; but, owing to bad management, it proved unprofitable, and they sold out at the end of a year at 50. The purchasers, in 1828, added a subscription of about \$95,000; which, added to the reduced stock, would make a present investment of about \$130,000. It is of course a joint stock concern.

3 to 9, inclusive, can only be answered by the president.

10. This is the only incorporated company in actual operation.

11 and 12. Refer to enclosed schedule.

13. An ordinary price current will furnish an answer. It includes bar iron, hoops, bolts, nails, cables and castings.

14. Bloomers' (operatives in forging bar iron) wages are \$16 per ton; artisans and laborers in the rolling mill \$1 per day; nail makers, 20 cents for eights to twenties, and 55 cents for threes and fours, per 100 lbs.; board in all cases included. The nature of the business excludes female laborers.

15. Twelve hours, except in the forge, where it will average eighteen hours, for forty-four weeks or ten months.

## DOCUMENT 10.—No. 38—Continued.

16. So far as my information extends, the rate of wages is nearly uniform throughout the country; and this opinion is fortified by an examination of the report of the Committee on Manufactures, in Congress, 1828.

17. See enclosed schedule.

18. The whole (or nearly so) of the manufactures at these works are transported to, and sold in the city of New York; distance 300 miles; cost of transportation, (including ten miles by land to Lake Champlain, \$1 75,) about \$5 50 per ton.

19. The answer is obvious. Every article manufactured here (nails, perhaps, to a less extent than bar and rolled iron,) come in direct competition with those of Europe.

20. Nails are consumed exclusively in this country. Rolled iron, chiefly in bolts, hoops, and cables, is applied to the purposes of commerce.

21. Embraced in the foregoing.

22 to 33, inclusive. Would probably receive full replies from the president.

34. Have no data on which to found an opinion.

35. Twelve dollars per month, exclusive of board at eight dollars per month.

Here, perhaps, it might be proper to conclude; but as the above is a total failure in regard to the information desired by the Secretary, I venture to proceed for your individual gratification, rather than with the hope of communicating any thing of importance to the public.

The schedule or abstract enclosed is copied from one furnished me by Mr. Burt, and embraces the years 1828, '29, '30. Bar or wrought iron made per annum, 500 tons; rolled, 1,000 tons of 2,240 pounds: the additional 500 tons having been purchased from the various establishments in this vicinity. These quantities were considerably increased in 1831, and a further increase may be anticipated during the current year—say 800 tons manufactured, and from 6 to 700 purchased; so that the operations of the rolling and slitting mill may be set down at about 1,500 tons. The average price of bar iron in this place is about \$75; that of rolled iron, in New York, about \$130.

Nails are set down in the schedule at 624 tons of 2,000 pounds. It would not be excessive to estimate the manufacture of the current year at 700 tons: price during the last year, up to October, 5½ cents per pound; since that time, 6½ cents, or \$130 per ton. Of the price of chain cables, I am ignorant.

The quantity of castings is too trivial to be the subject of remark. They are chiefly confined to machinery for the ordinary operations of the establishment.

As to the expense of making bar iron, I estimate at a little more than sixty dollars per ton; say thus:

|                                   |                       |                     |
|-----------------------------------|-----------------------|---------------------|
| 2½ tons ore,                      | at \$6 (at the works) | \$13 50             |
| 500 bushels coal,                 | at 5 cents            | 25 00               |
| Bloomers' wages,                  |                       | 16 00               |
| Repairs,                          |                       | 4 00                |
| Interest and incidental expenses, |                       | 3 50                |
|                                   |                       | <hr/> \$62 00 <hr/> |

The ore is raised from a vein already penetrated to the depth of 140 feet by steam power, and is the richest hitherto discovered in any part of the world; yielding, by chemical analysis, upwards of eighty per cent.

There are now in operation in this region of country between eighty and one hundred forge fires, each of which will manufacture about forty tons iron, and afford subsistence to nearly fifty souls. Noticing the price of the raw material, you will perceive that the chief value of the manufactured article is the fruit of *manual labor*; hence its importance in a political and moral point of view.

A large proportion of these establishments are struggling for existence; their proprietors generally combatting not only their poverty of means, but the imperfection of their skill as artisans, especially when compared with the manufacturers of Europe. Great improvements are making annually in the process of manufacturing. Only five years ago it required 3 tons of the same kind of ore of which it now requires but 2½, to make a ton of bar iron.

In conclusion, should it appear from what I have already said that important information might be derived from pursuing these remarks more in detail, it will afford me much pleasure to fulfil your wishes.

I remain, very respectfully,

Your obedient servant,

E. WILLIAMS.

## DOCUMENT 10.—No. 38—Continued.

|                                  | For the year | Number of persons employed. | No. of persons dependent on this branch of business. | No. of horses & draught cattle employed. | Tons of bar iron per annum. | Tons of castings per annum. | Tons of hoops, bolts, & fancy iron per annum. | Tons of nails per annum. | Cords wood consumed annually. |
|----------------------------------|--------------|-----------------------------|------------------------------------------------------|------------------------------------------|-----------------------------|-----------------------------|-----------------------------------------------|--------------------------|-------------------------------|
| Forge erected in 1826.           | 1828         | 205                         | 667                                                  | 98                                       | 500                         | } Made from ore.            |                                               |                          | 7142                          |
|                                  | 1829         | 205                         | 667                                                  | 98                                       | 500                         |                             |                                               |                          | 7142                          |
|                                  | 1830         | 205                         | 667                                                  | 98                                       | 500                         |                             |                                               |                          | 7142                          |
| Cupola furnace in 1834.          | 1828         | 4                           | 12                                                   | -                                        | -                           | 25                          | -                                             | -                        | 90                            |
|                                  | 1829         | 4                           | 12                                                   | -                                        | -                           | 25                          | -                                             | -                        | 90                            |
|                                  | 1830         | 4                           | 12                                                   | -                                        | -                           | 25                          | -                                             | -                        | 90                            |
| Rolling and slitting mill, 1824. | 1828         | 34                          | 102                                                  | 10                                       | -                           | -                           | 1000                                          | -                        | 3000                          |
|                                  | 1829         | 34                          | 102                                                  | 10                                       | -                           | -                           | 1000                                          | -                        | 3000                          |
|                                  | 1830         | 34                          | 102                                                  | 10                                       | -                           | -                           | 1000                                          | -                        | 3000                          |
| Cut nail factory, 1829.          | 1828         |                             |                                                      |                                          |                             |                             |                                               |                          |                               |
|                                  | 1829         | 17                          | 17                                                   | 2                                        | -                           | -                           | -                                             | 624                      | 150                           |
|                                  | 1830         | 17                          | 17                                                   | 2                                        | -                           | -                           | -                                             | 624                      | 150                           |
| Chain cable fact'y, 1828.        | 1828         | 18                          | 54                                                   | 2                                        | *65                         | †45                         | -                                             | -                        | 432                           |
|                                  | 1829         | 24                          | 72                                                   | 3                                        | *86                         | †60                         | -                                             | -                        | 432                           |
|                                  | 1830         | 24                          | 72                                                   | 3                                        | *86                         | †60                         | -                                             | -                        | 432                           |

\* Tons of bituminous coal consumed.

† Tons of American iron manufactured.

## DOCUMENT 10.—No. 39.

CLINTONVILLE, March 29, 1832.

DEAR SIR: Your favor of 19th inst. came to hand during a week's absence from home, or your request for an earlier reply than I am able to give it would have been fulfilled.

In reply to your first query, I remark, that nothing but hard wood *charcoal* is used in the manufacture of bar iron, and this, of course, is made in the neighboring forests. It would cost, delivered at the works, from 1½ to 1¾ dollars per cord. White, and Norway pine is used in heating iron for rolling, and costs, the former \$1, and the latter \$1 12½ per cord, and the average consumption varies little from four cords per ton. Liverpool, Virginia, and other bituminous coals are chiefly used at rolling mills near the sea board; they are used at this place (Liverpool, I believe, exclusively) only in the welding of chain links for cables. This is, of course, an answer to your second interrogatory.

3d query. In what time will a bloomer manufacture a ton of bar iron? Two persons are necessary to each fire: the one as a maker of iron, who keeps the fire in order, regulates the charges of coal and ore, and assists in directing the application of power to the hammer wheels; the other has little other duty than that of hammering, and this duty is so laborious as to require all the intervals of sinking the ore and heating the half blooms for repose, though a skillful and athletic hammerman will sometimes, for several days successively, hammer for two fires. Each of these fires, with two hands, will make one and one-fourth tons of flat or square iron per week. This was the average of the Peru Iron Company's forge during the last year: it is, however, about two cwt. more than the smaller establishments about the country will perform, these works having been constructed in a very superior style, and are indeed a model worthy the imitation of manufacturers in general.

## DOCUMENT 10.—No. 39.—Continued.

4th query. In what time will a nail maker manufacture 100 lbs. 8's to 20's, also of 3's and 4's?

|         |      |   |                       |   |                       |
|---------|------|---|-----------------------|---|-----------------------|
| Answer. | 3's  | - | 800 lbs. per week, at | - | 65 cents per 100 lbs. |
|         | 4's  | - | 200 lbs. per day, at  | - | 52 do do              |
|         | 8's  | - | 450 do                | - | 29 do do              |
|         | 10's | - | 600 do                | - | 20 do do              |
|         | 12's | - | 700 do                | - | 19 do do              |
|         | 20's | - | 800 do                | - | 17 do do              |

Machines, of course, at the above prices, are furnished by the employer. 3's and 4's are cut cold; the larger plates are heated with pine wood, and an experienced nailer informs me that the consumption is about half a cord of wood per ton.

In reply to your 5th query, I remark, that the uniform price for board and washing at this place, and generally in this vicinity, is \$2 25 per week.

It would afford me much pleasure to enlarge on the subject if the state of my health, and, I might add, my leisure (as the mail is waiting) permitted.

Should any thing more be required, and still in season for the purposes of the department, my leisure is at your service.

Respectfully, your obedient servant,

E. WILLIAMS.

## DOCUMENT 10.—No. 40.

*Manufactory of Rolled Iron and Cut Nails, situate in the town of Peru, in the County of Clinton, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                                                                                           | ANSWERS.                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                                                        | 1. Water power.                                                                                                                                     |
| 2. When established, and whether a joint stock concern?                                                                                                              | 2. Joint concern.                                                                                                                                   |
| 3. Capital invested in ground and buildings, water power and machinery?                                                                                              | 3. \$30,000.                                                                                                                                        |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                                                         | 4. \$40,650.                                                                                                                                        |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory?                                                                         | 5. Eight per cent. annually.                                                                                                                        |
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                             | 6. One half at seven per cent.                                                                                                                      |
| 7. What has been the rate of profits annually for the last three years? If a joint stock company, what dividends have been received?                                 | 7. Four per cent.                                                                                                                                   |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and therefore not annually divided? | 8. To keep works in order, about four per cent., which is the reason of difference between the answers of the 4th and 5th questions.                |
| 9. Causes of the increase (or decrease) of profit at different periods of time?                                                                                      | 9. Excessive importations of rolled iron and home competition in the article of cut nails, on which the present duty has been for years prohibited. |
| 10. Rates of profit on capital otherwise employed in the same county and State?                                                                                      | 10. About seven per cent.                                                                                                                           |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                               | 11. 225 tons cut nails, worth \$110.<br>225 tons rolled iron, round, flat, and square, worth \$96.<br>450 tons.                                     |

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                                                                                                           | 14. 450 tons bar iron, 1,200 cords wood, 3,000 bushels coal; \$35,500, all domestic.                                                                                                                                                                                                                                                       |
| 13. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                        | 13. No iron imported exactly similar; the English cable iron is nearest the quality, and is worth in New York from \$90 to \$100 per ton, at six months' credit, imported from Wales.                                                                                                                                                      |
| 14. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                       | 14. 40 men, at 75 cents per day,<br>19 boys, at 37½ cents per day.                                                                                                                                                                                                                                                                         |
| 15. How many hours a day employed, and what portion of the year?                                                                                                                                                                                       | 15. 12 horses, 10 months in the year.                                                                                                                                                                                                                                                                                                      |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                                                                                                  | 16. For men, \$11; for boys, \$5.                                                                                                                                                                                                                                                                                                          |
| 17. Number of horses or other animals employed?                                                                                                                                                                                                        | 17. 12 horses.                                                                                                                                                                                                                                                                                                                             |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                                                                                                | 18. From 300 to 500 miles, to Boston and New York.                                                                                                                                                                                                                                                                                         |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale?                                                                                                                                                  | 19. Foreign rolled iron does enter into competition in both markets.                                                                                                                                                                                                                                                                       |
| 20. Where are the manufactures consumed?                                                                                                                                                                                                               | 20. In the United States.                                                                                                                                                                                                                                                                                                                  |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                                                                   | 21. None are exported.                                                                                                                                                                                                                                                                                                                     |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                 | 22. Generally on credit of six months.                                                                                                                                                                                                                                                                                                     |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23. It has decreased principally in labor, possibly 1½ to 2 per cent. Raw materials, coal, and wood, have increased, say one per cent., and continue to increase in value.                                                                                                                                                                 |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                                                                     | 24. Nails from \$105 to \$120 per ton; manufactured iron from \$90 to \$140.                                                                                                                                                                                                                                                               |
| 25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                             | 25. The present duty must remain on rolled iron, or we must stop manufacturing.                                                                                                                                                                                                                                                            |
| 26. Is any change necessary in levying or collecting duties on such articles to prevent fraud?                                                                                                                                                         | 26. No correct information on the subject.                                                                                                                                                                                                                                                                                                 |
| 27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                           | 27. About 7-14ths labor, 6-14ths raw material, 1-14th profit.                                                                                                                                                                                                                                                                              |
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?                                                                                                        | 28. We have no means of knowing precisely how much we consume, but our county is a good agricultural county; and all the productions are consumed in the manufacturing business, and from ten to fifteen thousand dollars in provisions are brought from Vermont, and over that amount comes in flour from the western part of this State. |

## DOCUMENT 10.—No. 40.—Continued.

| QUESTIONS.                                                                                                                                                                                               | ANSWERS.                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 29. What quantity or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?                                                                          | 29. We have not the means of knowing.                                                                                                                                                                                 |
| 30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices? | 30. We should be compelled to abandon our business.                                                                                                                                                                   |
| 31. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                           | 31. We should have no capital.                                                                                                                                                                                        |
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent.?                                           | 32. We doubt whether there would be any business profitable for a few years, as this is a manufacturing county, and, in such an event, capital would be destroyed, and farmers would have a less advantageous market. |
| 33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent., and how gradual should the reduction be?                                | 33. Not any. We do not realize on our rolling over 6½ to 7 per cent.; nails neat us something more, but home competition reduced them last season to 4 per cent. profit.                                              |
| 34. Average profit of money or capital in your county?                                                                                                                                                   | 34. Seven per cent.                                                                                                                                                                                                   |
| 35. Average rate of wages in your county?                                                                                                                                                                | 35. \$11 per month.                                                                                                                                                                                                   |

The within statement was made by the proprietors. Mr. Oliver Keese, 3d postmaster at Keeseville, recently a partner in the concern, certifies to the accuracy of the information contained in it.

JOHN A. DIX,

## DOCUMENT 10.—No. 41.

*Manufactory of Iron, situate at Carthage, in the town of Wilna, in the County of Jefferson, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                                                           | ANSWERS.                                         |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                        | 1. Water power.                                  |
| 2. When established, and whether a joint stock concern?                                                                              | 2. In 1817. The property of an individual.       |
| 3. Capital invested in ground and buildings, water power and machinery?                                                              | 3. About \$30,000.                               |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                         | 4. \$33,437 per annum.                           |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory?                                         | 5. Has not equalled the legal interest of money. |
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                             | 6. \$30,000 at seven per cent.                   |
| 7. What has been the rate of profits annually for the last three years: if a joint stock company, what dividends have been received? | 7. Answered under No. 5.                         |

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9. Causes of the increase (or decrease) of profit at different periods of time?                                                                                                                                                                        | 9. Diminution of the price of iron. In 1825 or 1826 pig iron, which now sells in New York for \$50, sold for \$70 per ton.                                                                                                                                                                                                                                                                                                                                                                                       |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                 | 11. 300 tons of strong, soft pig iron, in quality equal to the best Scotch, value at the works \$18 per ton; 200 tons of castings, consisting of stoves, hollow ware, pot-ash kettles, and some machinery, \$70 per ton; 100 tons of refined bar iron, in quality equal to Swedes, \$90 per ton; total \$34,400. The castings are very superior in quality; being soft and malleable, the small are not readily broken, and the stoves are very little injured by heating.                                       |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                                                                                                           | 12. 3,000 tons of bog iron ore, at \$1 87½ per ton, = \$5,625; 250,000 bushels of charcoal, at 4½ cents per bushel, = \$11,250; total \$16,875—all domestic, of course.                                                                                                                                                                                                                                                                                                                                          |
| 14. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                       | 14. 165 men are employed; 140 are engaged in digging and delivering ore, and in making coal; their wages are, of course, included in the prices paid for ore and coal.—See No. 12. 25 are working for wages, which will average \$1 25 per day—total per annum about \$8,000.                                                                                                                                                                                                                                    |
| 15. How many hours a day employed, and what portion of the year?                                                                                                                                                                                       | 15. Ten hours during ten months of the year.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                                                                                                  | 16. Laborers about \$10 per month and found; mechanics about \$1 25 per day, without board.                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 17. Number of horses or other animals employed?                                                                                                                                                                                                        | 17. Twenty horses, eighty oxen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                                                                                                | 18. They are principally vended at the works, and never more than 150 miles therefrom.                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?                                                                                                                              | 19. English, Russian, and Swedes' bar iron, and Scotch pig iron, injure our sales materially. The former may be purchased in Canada for \$50 per ton, duty 22 40, charges about \$2 60, = \$75 per ton. This is used almost exclusively for tire iron; and, though inferior in quality, takes the place of the domestic for that use to a considerable extent, precisely how far, it is impossible to say. The Scotch pig iron only enters into competition with the domestic at Utica, 70 miles from the works. |
| 20. Where are the manufactures consumed?                                                                                                                                                                                                               | 20. In Jefferson and the adjoining counties.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                                                                   | 21. None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                 | 22. One-fourth for cash; one-half on credit of four months; one-fourth bartered for agricultural productions.                                                                                                                                                                                                                                                                                                                                                                                                    |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23. The cost of manufacturing a ton of bar iron has decreased, during the last year, \$3, by a reduction of workmen's wages. During the last four years there has been a reduction of 37½ cents per ton in the price of ore.                                                                                                                                                                                                                                                                                     |

DOCUMENT 10.—No. 41—Continued.

| QUESTIONS.                                                                                                                                                                          | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?</p>                                   | <p>25. The present rate for bar iron is not a protection. Pig iron might be manufactured at a profit with a small reduction of duty on the imported of the same description.</p>                                                                                                                                                                                                                                                                                                 |
| <p>27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?</p> | <p>27. The cost of manufacturing a ton of bar iron is as follows: pig iron 3,100 lbs. \$46 50; charcoal 300 bushels, \$15; workmen running out, \$5; workmen refining, \$10, workmen drawing into bars, \$6; blacksmith, coal stocker, and carpenter's work, 3; total \$85 50. This is exclusive of the interest on the capital employed and the expense of repairs, superintendence, &amp;c. The bar iron sells for \$90 per ton, and therefore yields scarcely any profit.</p> |
| <p>28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?</p>                              | <p>The cost of manufacturing pig iron is as follows: six tons of ore, \$11 25; 250 bushels charcoal, \$11 25; wages, \$5 55; total \$28 05. Repairs, interest on capital employed, superintendence, and incidental expenses, cannot be estimated at less than \$3 50, making \$31 55 cents per ton; it sells for \$38.</p>                                                                                                                                                       |
| <p>31. If it would cause you to abandon your business, in what way you would employ your capital?</p>                                                                               | <p>28. 4,000 bushels of wheat, 1,600 bushels of rye, 1,600 bushels of corn, 8,000 bushels of potatoes, 8,000 lbs. of butter, 4,000 lbs. of cheese, 72,000 lbs of pork, 144,000 lbs. of beef, 400 tons of hay, 20,000 bushels of oats.</p>                                                                                                                                                                                                                                        |
| <p>33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent., and how gradual should the reduction be?</p>    | <p>31. The capital invested in fixtures would be totally lost.</p>                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p>35. Average rate of wages in your county?</p>                                                                                                                                    | <p>33. It has not yielded more than six per cent. heretofore.</p> <p>35. Answered under No. 16.</p>                                                                                                                                                                                                                                                                                                                                                                              |

The answers within contained, were given by Mr. Le Ray, the proprietor, and Mr. Budd, the agent of the works, on a personal interview with them.

JOHN A. DIX.



## DOCUMENT 10.—No. 42.

*Manufactory of Machinery, situate in the town of Watertown, in the County of Jefferson, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                                                                                                                                                                         | ANSWERS.                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                                                                                                                                      | 1. Water power.                                                                                       |
| 2. When established; and whether a joint stock concern?                                                                                                                                                                                            | 2. Eighteen hundred and twenty-seven. Individual.                                                     |
| 3. Capital invested in ground and buildings, water power and machinery?                                                                                                                                                                            | 3. From five to eight thousand dollars.                                                               |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                                                                                                                                       | 4. Nine thousand dollars, as near as can be calculated.                                               |
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                                                                                                           | 6. Two thousand dollars. 7 per cent.                                                                  |
| 7. What has been the rate of profits annually for the last three years? If a joint stock company, what dividends have been received?                                                                                                               | 7. Fluctuating; say from about 12½ per ct.                                                            |
| 9. Causes of the increase (or decrease) of profit at different periods of time?                                                                                                                                                                    | 9. The prosperous and unprosperous state of cotton and woollen manufactory.                           |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                             | 11. Cotton and woollen machinery principally, and mill work. About ten thousand dollars.              |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                                                                                                       | 12. Principally domestic articles, American iron being altogether preferable.                         |
| 14. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                  | 14. Fifteen men generally; average wages ten shillings per day.                                       |
| 15. How many hours a day employed, and what portion of the year?                                                                                                                                                                                   | 15. Twelve or fourteen hours throughout the year.                                                     |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                                                                                              | 16. Rather less.                                                                                      |
| 17. Number of horses or other animals employed?                                                                                                                                                                                                    | 17. Three horses.                                                                                     |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                                                                                            | 18. At the manufactory.                                                                               |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?                                                                                                                          | 19. They do not.                                                                                      |
| 20. Where are the manufactures consumed?                                                                                                                                                                                                           | 20. In the State of New York mostly.                                                                  |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                                                               | 21. Some to Canada.                                                                                   |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                             | 22. Average credit of six months.                                                                     |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or labor, and at what rate? | 23. Decreased in consequence of deduction in the price of raw materials since the tariff of 1824.     |
| 27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                       | 27. One half labor; three-eighths stock, and one eighth profit, including wear and tear of machinery. |

## DOCUMENT 10.—No. 42—Continued.

| QUESTIONS.                                                                                                                                      | ANSWERS.                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions? | 28. One thousand dollars agricultural, and fifteen hundred other domestic productions, exclusive of iron. |
| 29. What quantity or amount of manufactures, such as you make, is produced in the U. States, and what amount in this State?                     | 29. Cannot say.                                                                                           |
| 35. Average rate of wages in your county?                                                                                                       | 35. Mechanics one dollar per day; farmers seventy-five cents.                                             |

GEORGE GOULDING,  
By W. A. PIERPONT.

WATERTOWN, *March 26, 1832.*

Nothing but machinery is manufactured at this establishment, and only for cotton and woollen factories and mills. The average profit is 12½ per cent.; but this includes the value of the services of the proprietor, who is himself the manager of the concern. There is, in Jefferson county, an active domestic competition in this branch of the iron manufacture.

J. A. DIX.

## DOCUMENT 10.—No. 49.

*Lord and Skinner's Manufactory of Iron Castings, situate in the town of Brownville, in the County of Jefferson, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                   | ANSWERS.                                                                                                                                                            |
|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                | 1. Water.                                                                                                                                                           |
| 2. When established; and whether a joint stock concern?                                      | 2. 15th January, 1831. Joint stock.                                                                                                                                 |
| 3. Capital invested in ground and buildings, water power and machinery?                      | 3. \$3,500 owned by one individual of the firm. \$180 rent, yearly, by the firm.                                                                                    |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages? | 4. 1st. \$3,000, iron and coal;<br>2d. 1,469, wages and board;<br>\$4,469, total materials, wages and board.                                                        |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory? | 5. Uncertain until we ascertain the effects of the revised laws of our State: we are apprehensive it will reduce them materially this year; otherwise 16½ per cent. |
| 6. How much of the capital is borrowed, and what interest is paid on it?                     | 6. None.                                                                                                                                                            |

\* Supposed to refer to a revision of the tariff. From the apparently large amount of profit on the capital employed, the value of the services of the proprietors should be deducted, who manage and superintend their establishment.

J. A. DIX.

| QUESTIONS.                                                                                                                                                                  | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and therefore not annually divided?</p> | <p>8. All.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p>10. Rates of profit on capital otherwise employed in the same county and State?</p>                                                                                      | <p>10. We are of opinion it will not vary much from 10 per cent.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p>11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?</p>                               | <p>11. 1st. 60 tons of casting annually manufactured; average price 5 cents per pound, \$6,000. 2d. Mill and machinery casting of all kinds, viz. gudgeons, mill spindles, pinions, beval wheels, shafts, crown wheels, segments, <i>knockers</i>, bails and drivers, racks and pinions, saw mill irons, carding-machine cotton mills, fulling mill, whiskey mill, cider mill, fanning mill and paper mill casting from 12 to 1 ton weight; also, ploughs, sleigh-shoes, hollow ware, andirons, stoves, cook-furnaces, smoothing irons; also, all kinds of castings for steam engines, for various purposes, and more particularly for steamboats, to *our sorrow. All first quality.</p> |
| <p>12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?</p>                                                         | <p>12. 40 tons pig and other cast iron, \$38 per ton; domestic manufactory, \$1,360; 20 tons old iron, \$500, \$1,860<br/> Transportation 20 miles cartage, \$3 50; do 40 tons is \$140. Average cost transportation old iron, \$20, 160<br/> 40 tons Lacawanna coal, \$14 per ton; do do 560<br/> 2,000 bushels charcoal, \$4 per 100 bushels, 80<br/> Flasks, pipe clay amboy, Sturbridge brick, \$25, and other contingent expenses, 340<br/> \$3,000</p>                                                                                                                                                                                                                              |
| <p>13. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?</p>                                                      | <p>13. None imported to our knowledge; if any, cost unknown.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <p>14. Number of men, women, and children employed, and average wages of each class?</p>                                                                                    | <p>14. 1st. 5 men; and, at sundry times, a great number of small boys dressing ware—no women. 2d. 1 man, foreman, jointly concerned, \$39 per month, in year and board, \$435; 1 man \$26, loses no time, \$312, \$773. board last man \$72; 1 man, \$18, 10 months, \$180, board \$60; 1 man \$14, \$168, 480<br/> 1 man \$12 per mo., \$144, board \$72, 216<br/> \$1,469</p>                                                                                                                                                                                                                                                                                                           |
| <p>15. How many hours a day employed, and what portion of the year?</p>                                                                                                     | <p>Average wages \$21 50 per month—5 men.<br/> 15. 10 hours, and often 12—all days in the year, excepting Sundays; reference to answer to last question.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

\* The inhabitants of Brownville have been peculiarly unfortunate in a steamboat association.

| QUESTIONS.                                                                                                                                                                                                                                         | ANSWERS.                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                                                                                              | 16. Mechanics, \$15 to \$26. Farmers, \$10 to \$12; merchants \$25 to \$50; officers of the army, \$40 to \$80, and \$100; officers of civil departments, <i>very high</i> ; revenue officers, \$60 a \$100, and a proportion of spoil, &c. Average wages, competent workmen, \$20. |
| 17. Number of horses or other animals employed?                                                                                                                                                                                                    | 17. None.                                                                                                                                                                                                                                                                           |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                                                                                            | 18. Home market.                                                                                                                                                                                                                                                                    |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale? If so, to what extent?                                                                                                                       | 19. Do not.                                                                                                                                                                                                                                                                         |
| 20. Where are the manufactures consumed?                                                                                                                                                                                                           | 20. In this county and in Upper Canada.                                                                                                                                                                                                                                             |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                                                               | 21. About one-twelfth of the ware manufactured at the establishment is sold at the works, and afterwards transported to Upper Canada.                                                                                                                                               |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                             | 22. 1st. Very little; generally on a credit from 90 days to 6 and 9 months; a great amount bartered for country produce, and often for bad paper.                                                                                                                                   |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or labor, and at what rate? | 23. Increased about 5 per cent. within the year past, on account of an increase in the price of materials.                                                                                                                                                                          |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                                                                 | 24. 5 cents per lb.                                                                                                                                                                                                                                                                 |
| 25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                         | 25. Imported articles do not come in competition with those manufactured by us.                                                                                                                                                                                                     |
| 26. Is any change necessary in levying or collecting duties on such articles to prevent fraud?                                                                                                                                                     | 26. We are not aware that any is necessary.                                                                                                                                                                                                                                         |
| 27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                       | 27. About one-half expense of manufactures in materials—about one-third expense of manufactures in wages of labor and board. Balance, 16½ per cent. profits of capital.                                                                                                             |
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?                                                                                                    | 28. There may be about \$600 worth of agricultural productions annually consumed, and about \$400 in other domestic productions.                                                                                                                                                    |
| 29. What quantity or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?                                                                                                                    | 29. To answer this interrogatory correctly would require more time and labor than we feel willing to bestow; therefore you must obtain the information wanted from some other source.                                                                                               |
| 30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices?                                           | 30. Perhaps neither.                                                                                                                                                                                                                                                                |

## DOCUMENT 10.—No. 43—Continued.

| QUESTIONS.                                                                                                                                                    | ANSWERS.                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 31. If it would cause you to abandon your business, in what way would you employ your capital?                                                                | 31. Better answered when that shall take place.                                                                                                                                                                              |
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent? | 32. We presume there is, but we think that the blacksmith had better "stick to his hammer and the shoemaker to his last."                                                                                                    |
| 34. Average profit of money or capital in your county?                                                                                                        | 34. Mercantile men are up to about 50 per cent.; bank stock about the same; steamboat stock 50 per cent. below par. Average profit, say 10 per cent., as a majority of moneyed capitalists are up to from 14 to 25 per cent. |
| 35. Average rate of wages in your county?                                                                                                                     | 35. Manufacturers, at \$29 per month.                                                                                                                                                                                        |

This statement exhibits 16½ per cent. profit on the first year's operations, with a capital (fixed and floating) of \$8,149, or a net income of \$1,258 16. The operatives are confined to castings. From the net income should be deducted the value of the services of the proprietors, who are managers, and the balance will be the profits of capital.

J. A. DIX.

## DOCUMENT 10.—No. 44.

*Manufactory of Wrought Iron, situate in the town of Malone, in the County of Franklin, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                                                             | ANSWERS.                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                          | 1. Propelled by water power.                                                                                                                                                            |
| 2. When established; and whether a joint stock concern?                                                                                | 2. Established in the spring of 1831, and owned by individuals.                                                                                                                         |
| 3. Capital invested in ground and buildings, water power, and machinery?                                                               | 3. About \$2,500.                                                                                                                                                                       |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                           | 4. About \$4,320.                                                                                                                                                                       |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory?                                           | 5. As the works are as yet in their infancy, the proprietors are unable to state a nicety, but think about 12½ per cent.                                                                |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 11. This establishment makes about 60 tons bar iron per annum, worth \$80 per ton, amounting to \$4,800.                                                                                |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                           | 12. Consumes about 42,000 bushels coals, worth \$40, \$1,680; and near 240 tons of ore, at \$4, \$960—total \$2,640.                                                                    |
| 13. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                        | 13. This article, when imported from Russia, or an article very little superior, costs about \$87 50 to \$90 per ton.                                                                   |
| 14. Number of men, women and children employed, and average wages of each class?                                                       | 14. This forge employs 5 men in the manufacturing of iron, about 3 in raising ore, and 10 men in making coals; the bloomers' wages amount to \$1 25 per day, the colliers' to near \$1. |

## DOCUMENT 10.—No. 44.—Continued.

| QUESTIONS.                                                                                                                                                                                               | ANSWERS.                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15. How many hours a day employed, and what portion of the year?                                                                                                                                         | 15. The work is principally done by daylight, and continued through all seasons of the year.                                                                                                           |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                                                    | 16. The wages of bloomers is from 50 to 75 per cent. higher than ordinary classes, and those of colliers some 10 or 20 per cent.                                                                       |
| 17. Number of horses or other animals employed?                                                                                                                                                          | 17. It requires to draw ore and coal three and four teams of two horses or cattle each to stock this forge.                                                                                            |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                                                  | 18. Most of the iron is disposed of at the works.                                                                                                                                                      |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale; and to what extent?                                                                                | 19. The English iron competes with this for many uses, such as tire, hoops, &c., as to price only.                                                                                                     |
| 20. Where are the manufactures consumed?                                                                                                                                                                 | 20. The manufactures are consumed principally in this and the adjoining counties.                                                                                                                      |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                     | 21. Very little, and that in small sales to Lower Canada.                                                                                                                                              |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                   | 22. The sales are principally for cash and credit of 3 to 6 months, and, when bartered, for some commodity equal to cash in 6 months.                                                                  |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                       | 24. The prices of sales have varied from \$80 to \$90.                                                                                                                                                 |
| 25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                               | 25. The present rates are quite low enough, particularly on the cheaper qualities.                                                                                                                     |
| 26. Is any change necessary in levying or collecting duties on such articles to prevent fraud?                                                                                                           | 26. The collection of duties in this section is quite as perfect as circumstances will admit.                                                                                                          |
| 30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices? | 30. A reduction of the duties would throw the English and other irons into competition with ours, and it is but too plain to foresee the destruction of the manufacturer should that event take place. |
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent.?                                           | 32. There are many.                                                                                                                                                                                    |
| 35. Average rate of wages in your county?                                                                                                                                                                | 35. The wages of laborers in this county are from \$9 to \$12 per month for common laborers. This is, of course, exclusive of board.                                                                   |

This statement exhibits a profit of 12½ per cent. on a capital (fixed and floating) of \$6,820. Malone is nearly out of the reach of foreign competition. It is about 60 miles west of Plattsburgh, on lake Champlain, with land transportation the whole distance, and about 25 miles east of the river St. Lawrence. The amount of iron manufactured is very small, and, as will be perceived, is all consumed in Franklin and the adjacent counties.

J. A. DIX.

## DOCUMENT 10.—No. 45

*One Manufactory of Iron and one of Cloth, situate in the town of Honnysfield, in the County of Jefferson, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                                                                                           | ANSWERS.                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                      | <i>Cloth dressing.</i> <i>Furnace for castings of Iron, and machine shop.</i><br><i>Water.</i> <i>Water.</i>                                                                                          |
| 1. By what power—water, steam, or what other?                                                                                                                        | 1. Water.                                                                                                                                                                                             |
| 2. When established; and whether a joint stock concern?                                                                                                              | 2. Individual.      1831. Joint.                                                                                                                                                                      |
| 3. Capital invested in ground and buildings, water power and machinery?                                                                                              | 3. \$ 2,500.      \$ 3,800.                                                                                                                                                                           |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                                                         | 4. \$ 1,000.      \$ 3,400.                                                                                                                                                                           |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory?                                                                         | 5. Seven per cent.      Ten per cent.                                                                                                                                                                 |
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                             | 6. None.      None.                                                                                                                                                                                   |
| 7. What has been the rate of profits annually for the last three years? If a joint stock company, what dividends have been received?                                 | 7. Profits added to capital.      The same.                                                                                                                                                           |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and therefore not annually divided? | 8. The whole.      Do.                                                                                                                                                                                |
| 10. Rates of profit on capital otherwise employed in the same county and State?                                                                                      | 10. Seven per cent.      Seven per cent.                                                                                                                                                              |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                               | 11. At the rate of \$ 8,000 per annum— $\frac{1}{2}$ steam engine castings; $\frac{1}{2}$ saw mill, grist mill, and fulling mill castings; $\frac{1}{4}$ sleigh shoes, andirons, ploughs, stoves, &c. |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                         | 12. At the rate per annum of £0 tons iron, value \$ 2,400; 30 tons mineral coal, value \$ 330; 2,000 bushels charcoal, value \$ 100. All American.                                                    |
| 14. Number of men, women, and children, employed, and average wages of each class?                                                                                   | 14. Nine men, average \$ 1 per day.                                                                                                                                                                   |
| 15. How many hours a day employed, and what portion of the year?                                                                                                     | 15. Ten hours throughout the year, for all except the moulders, three of whom work but about eight hours.                                                                                             |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                | 16. About 75 cents per day.                                                                                                                                                                           |
| 17. Number of horses or other animals employed?                                                                                                                      | 17. None.                                                                                                                                                                                             |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                              | 18. In the county and Upper Canada.                                                                                                                                                                   |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale; and to what extent?                                            | 19. In Canada, but not in the U. States.                                                                                                                                                              |
| 20. Where are the manufactures consumed?                                                                                                                             | 20. Both sides of Lake Ontario.                                                                                                                                                                       |
| 21. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                 | 21. None, except Canada.                                                                                                                                                                              |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                               | 22. Generally six months' credit.                                                                                                                                                                     |

## DOCUMENT 10.—No. 45—Continued.

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23. The cost of iron has increased about ten per cent.                             |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                                                                     | 24. At five cents per pound.                                                       |
| 25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                             | 25. As it now is.                                                                  |
| 26. Is any change necessary in levying or collecting duties on such articles to prevent fraud?                                                                                                                                                         | 26. None.                                                                          |
| 27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                           | 27. About $\frac{1}{2}$ materials<br>$\frac{1}{4}$ labor<br>$\frac{1}{4}$ profits. |
| 30. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to 12 $\frac{1}{2}$ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices?                                 | 30. It would cause an abandonment.                                                 |
| 31. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                         | 31. It would nine-tenths be lost.                                                  |
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12 $\frac{1}{2}$ per cent.?                                                                            | 32. None.                                                                          |

## DOCUMENT 10.—No. 46.

*Manufactory of Cast Iron, situate in the town of Wolcott, in the County of Wayne, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                   | ANSWERS.                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                | 1. Water power.                                                                                                                                                                                 |
| 2. When established; and whether a joint stock concern?                                      | 2. Established in 1821; is a joint stock.                                                                                                                                                       |
| 3. Capital invested in ground and buildings, water power and machinery?                      | 3. Seven thousand dollars.                                                                                                                                                                      |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages? | 4. Ten thousand dollars.                                                                                                                                                                        |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory? | 5. First six years lost \$12,000, furnace burnt in that time; damage by burning probably \$2,000. Since that time we have realized a profit of about 15 per cent.; no accidents of consequence. |



| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                                                                                                                                               | 6. Five thousand dollars at 7 per cent.                                                                                                                                                                                                |
| 8. What portion of the income of the company has been converted into fixed capital, or retained for contingent or other objects, and therefore not annually divided?                                                                                   | 8. About four thousand dollars.                                                                                                                                                                                                        |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                 | 11. Two hundred and fifty tons; 150 tons plough castings good quality, at \$60 per ton; 60 tons hollow ware, first quality, value \$67 20 per ton, and 40 tons scrap iron valued at \$30 per ton; 300 ploughs, wooded, worth \$6 each. |
| 12. Quantity and value of raw materials annually used, distinguishing between foreign and domestic products?                                                                                                                                           | 12. About 80,000 bushels coal at \$40 per 1,000, and 800 tons ore at \$2 50 per ton, domestic.                                                                                                                                         |
| 13. Cost in the United States of similar articles of manufactory imported from abroad, and from what countries?                                                                                                                                        | 13. Unknown.                                                                                                                                                                                                                           |
| 14. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                       | 14. Average, 51 men; average wages 7s. per day, adding board.                                                                                                                                                                          |
| 15. How many hours a day employed, and what portion of the year?                                                                                                                                                                                       | 15. Twelve hours per day through the year. Furnace in operation about 6 months.                                                                                                                                                        |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                                                                                                  | 16. About 6s. per day, adding board.                                                                                                                                                                                                   |
| 17. Number of horses or other animals employed?                                                                                                                                                                                                        | 17. Twelve teams employed in transporting materials.                                                                                                                                                                                   |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                                                                                                | 18. Generally made to order; delivered at the factory.                                                                                                                                                                                 |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale?                                                                                                                                                  | 19. Not to our knowledge.                                                                                                                                                                                                              |
| 20. Where are the manufactures consumed?                                                                                                                                                                                                               | 20. In the counties of Wayne, Oswego, Cayuga, Tompkins, Broome, Seneca, Tioga, Steuben, Yates, Ontario, Livingston, Monroe, and St. Lawrence, of this State, and a small portion in Canada and Michigan.                               |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                 | 22. About one-third cash on delivery; the rest six months with interest, no barter.                                                                                                                                                    |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23. The cost has decreased about one-third both on labor and materials.                                                                                                                                                                |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                                                                     | 24. Until the last five years, manufactures were sold about double the above mentioned prices, but were principally bartered in the vicinity of the furnace.                                                                           |
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?                                                                                                        | 28. \$2,000 in agricultural productions.                                                                                                                                                                                               |
| 29. What quantity or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?                                                                                                                        | 29. We are not qualified to state.                                                                                                                                                                                                     |

## DOCUMENT 10.—No. 46.—Continued.

| QUESTIONS.                                                                                                                                                                                               | ANSWERS.                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices? | 30. We could not sell at any reduced prices; we could not tell the effect a reduction of the tariff would have.                                                                 |
| 31. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                           | 31. Probably in agriculture.                                                                                                                                                    |
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                            | 32. The vending of merchandise, or farming.                                                                                                                                     |
| 33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent., and how gradual should the reduction be?                                | 33. Our business is subject to so many disasters and hazards from fire, and otherwise, that 6 per cent. would be no object for us to continue. Our furnace has once been burnt. |
| 34. Average profit of money or capital in your county?                                                                                                                                                   | 34. Seven per cent. payable at 90 days.                                                                                                                                         |
| 35. Average rate of wages in your county?                                                                                                                                                                | 35. From 10 to \$12 per month in common business, board exclusive.                                                                                                              |

WOLCOTT, March 22, 1832.

Sir: The within is as full and correct a statement to the questions as we are able to give.  
Respectfully,

Mr. J. A. DIX.

Your obedient servant,

HENDRICK, SEYMOUR, & CO.

\*This statement exhibits a profit of 15 per cent. on a capital (fixed and floating) of \$17,000. It is employed principally in castings, which, for reasons elsewhere assigned, is the most profitable branch of the iron manufacture.

J. A. DIX.

## DOCUMENT 10.—No. 47.

*Manufactory of Iron, situate in the town of Ontario, in the County of Wayne, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                                                             | ANSWERS.                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                                                          | 1. Water power.                                                                                              |
| 2. When established; and whether a joint stock concern?                                                                                | 2. Established in the year 1824; owned by individuals.                                                       |
| 3. Capital invested in ground and buildings, water power and machinery?                                                                | 3. Ten thousand dollars.                                                                                     |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                           | 4. Seven thousand two hundred dollars.                                                                       |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 11. Whole amount annually \$10,800; about two-thirds pig iron, and one-third hollow ware and other castings. |

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12. Quality and value of raw materials annually used, distinguishing between foreign and domestic products?                                                                                                                                            | 12. 1,200 tons ore, value \$1,800; 120,000 bushels coal, 3,600; total value \$5,400; all domestic.                                                            |
| 14. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                      | 14. Average number of men employed in furnace while in operation 10; average price of wages 70 cents per day.                                                 |
| 15. How many hours a day employed, and what portion of the year?                                                                                                                                                                                       | 15. Seven or eight months of the year day and night, or 24 hours a day.                                                                                       |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                                                                                                  | 16. Ten or twelve dollars per month.                                                                                                                          |
| 17. Number of horses or other animals employed?                                                                                                                                                                                                        | 17. Some part of the time engaged in drawing coal, ore, &c., from 20 to 30 horses and oxen.                                                                   |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                                                                                                                                | 18. Sales made mostly here at the furnace; a proportion of the iron, &c. is carried from 10 to 70 miles.                                                      |
| 19. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?                                                                                                                              | 19. None.                                                                                                                                                     |
| 20. Where are the manufactures consumed?                                                                                                                                                                                                               | 20. Generally in western New York.                                                                                                                            |
| 22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                 | 22. Sold by manufacturers for cash; if on credit, 3 to 6 months.                                                                                              |
| 23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 23. Gradual increase annually on the raw materials; both the ore and coal cost a little more than formerly, owing to the ore being deeper and timber scarcer. |
| 24. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                                                                                                                                     | 24. Pig iron from \$30 to \$35 per ton.                                                                                                                       |
| 27. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                           | 27. About \$5,500 for raw materials, \$1,800 for wages, \$3,000 profits.                                                                                      |
| 28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?                                                                                                        | 28. Provisions about \$4,000, domestic goods \$1,000; total \$5,000.                                                                                          |
| 30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., would it cause you to abandon your business, or would you manufacture at reduced prices?                                               | 30. Could not afford to manufacture for much lower prices.                                                                                                    |
| 31. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                         | 31. We know of nothing more profitable than loaning the money, as that article appears at this time to be most in demand, and banks refuse to discount.       |
| 32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent.?                                                                                         | 32. Nothing more advantageous than shaving with the money.                                                                                                    |
| 35. Average rate of wages in your county?                                                                                                                                                                                                              | 35. Probably about \$15 per month.                                                                                                                            |

DOCUMENT 10.—No. 45.  
*ABSTRACT of the Iron Manufactories in the State of New York.—Output and Air Furnaces.*

| New York.           | County.      | Tons pig met-<br>tle. |      | Bituminous<br>coal used. |      | Anthracite coal<br>used. |      | Cords of wood. |      | Laborers. |      | Dependants. |      | Cattle. |
|---------------------|--------------|-----------------------|------|--------------------------|------|--------------------------|------|----------------|------|-----------|------|-------------|------|---------|
|                     |              | 1828                  | 1829 | 1828                     | 1829 | 1828                     | 1829 | 1828           | 1829 | 1828      | 1829 | 1828        | 1829 |         |
| McQueen's           | New York     | 420                   | 400  | 100                      | 100  | 175                      | 175  | 40             | 40   | 17        | 17   | 66          | 68   | 6       |
| Sabbatan            | Do           | 310                   | 380  | 210                      | 250  | 200                      | 230  | 50             | 65   | 60        | 90   | 200         | 240  | 8       |
| Alair               | Do           | 500                   | 500  | 600                      | 600  | 400                      | 400  | 100            | 100  | 200       | 200  | 800         | 800  | 12      |
| Richards and Daniel | Do           | 200                   | 200  | 250                      | -    | 100                      | 125  | 20             | 30   | 12        | 16   | 20          | 30   | 4       |
| Morrison & Co.      | Do           | 250                   | 275  | 300                      | -    | 100                      | 100  | 20             | 20   | 25        | 28   | 40          | 75   | 4       |
| Browning            | Do           | 175                   | 200  | 250                      | -    | 65                       | 75   | 30             | 36   | 12        | 14   | 18          | 48   | 2       |
| Warrell             | Do           | 450                   | 500  | 500                      | 90   | 190                      | 200  | 20             | 20   | 45        | 50   | 160         | 180  | 9       |
| Walworth            | Do           | 100                   | 100  | 100                      | -    | 50                       | 50   | 5              | 5    | 10        | 10   | 40          | 40   | 2       |
| Berkbech            | Do           | 175                   | 200  | 200                      | 100  | 100                      | 100  | 10             | 10   | 20        | 20   | 80          | 80   | 4       |
| Blauvel             | Do           | 50                    | 50   | 50                       | -    | 25                       | 25   | 10             | 10   | 2         | 2    | 8           | 8    | 1       |
| Herring             | Rockland     | 100                   | 100  | 100                      | -    | 40                       | 40   | 10             | 10   | 4         | 4    | 16          | 16   | 1       |
| Wiley & Co.         | West Chester | 130                   | 130  | 130                      | -    | 50                       | 50   | 10             | 10   | 5         | 5    | 20          | 20   | 1       |
| Mattewan            | Do           | 480                   | 480  | 40                       | 40   | 120                      | 120  | 30             | 30   | 110       | 110  | 400         | 400  | 7       |
| Cold Spring         | Fishkill     | 2000                  | 2000 | 1500                     | 1500 | 50                       | 50   | 100            | 100  | 360       | 360  | 1200        | 1200 | 19      |
| Carpenter           | Putnam       | 150                   | 150  | -                        | -    | 60                       | 60   | 10             | 10   | 6         | 6    | 24          | 24   | 2       |
| Wood & Brundage     | Orange       | 150                   | 150  | -                        | -    | 60                       | 60   | 10             | 10   | 6         | 6    | 24          | 24   | 2       |
| Clute               | Dutchess     | 125                   | 125  | 125                      | -    | 50                       | 50   | 10             | 10   | 6         | 6    | 24          | 24   | 2       |
| Miller              | Do           | 250                   | 250  | 250                      | -    | 100                      | 100  | 15             | 15   | 10        | 10   | 40          | 40   | 2       |
| Kingston            | Green        | 160                   | 160  | 160                      | -    | 60                       | 60   | 10             | 10   | 6         | 6    | 24          | 24   | 2       |
| Sarabuck            | Ulster       | 300                   | 300  | 300                      | -    | 100                      | 100  | 20             | 20   | 15        | 15   | 60          | 60   | 4       |
| Whiting             | Hudson       | 80                    | 90   | 100                      | -    | 20                       | 35   | 28             | 100  | 10        | 10   | 40          | 40   | 4       |
| Sarabuck            | Columbia     | 400                   | 425  | 450                      | 200  | 100                      | 100  | 100            | 100  | 23        | 25   | 60          | 80   | 3       |
| Benedict & Co.      | Troy         | -                     | 160  | -                        | -    | 75                       | -    | 150            | 150  | 30        | 30   | 96          | 96   | 1       |
| Many & Ward         | Albany       | 380                   | 380  | 380                      | 50   | 160                      | 160  | 150            | 150  | 30        | 30   | 96          | 96   | 2       |
| F. Low              | Do           | 175                   | 175  | 175                      | -    | 100                      | 100  | 100            | 100  | 9         | 9    | 36          | 36   | 2       |
| Townsend's          | Do           | 350                   | 350  | 350                      | 20   | 200                      | 200  | 100            | 100  | 27        | 27   | 108         | 108  | 4       |
| Nott & Co.          | Do           | 150                   | 150  | 250                      | 70   | 60                       | 60   | 95             | 120  | 33        | 33   | 68          | 100  | 6       |
| Stratton            | Do           | 100                   | 150  | 150                      | -    | 60                       | 60   | 100            | 150  | 9         | 11   | 36          | 44   | 1       |

DOCUMENT 10.—No. 48.—Continued.

| New York.      | County.         | Tons pig met-<br>tle. |      | Bituminous<br>coal used. |      | Anthracite<br>coal used. |      | Cords of wood. |      | Laborers. |      | Dependants. |      | Cattle. |
|----------------|-----------------|-----------------------|------|--------------------------|------|--------------------------|------|----------------|------|-----------|------|-------------|------|---------|
|                |                 | 1838                  | 1829 | 1830                     | 1828 | 1829                     | 1830 | 1828           | 1829 | 1830      | 1828 | 1829        | 1830 |         |
| Lansburgh      | Waterford       | -                     | 50   | 65                       | -    | -                        | 16   | 21             | 50   | 4         | -    | 16          | 25   | 2       |
| Kemble & Co.   | Balston         | 160                   | 190  | 200                      | -    | -                        | 53   | 62             | 100  | 16        | 64   | 72          | 80   | 2       |
| J. Williams    | -               | 50                    | 50   | 50                       | -    | -                        | 15   | 15             | 50   | 3         | 12   | 12          | 12   | 2       |
| W. W. Chase    | Amsterdam       | 60                    | 60   | 60                       | -    | -                        | 20   | 20             | 66   | 3         | 12   | 12          | 12   | 2       |
| Prescott & Co. | Middlebury      | 150                   | 150  | 150                      | -    | -                        | 50   | 50             | 100  | 15        | 60   | 60          | 60   | 10      |
| Camp           | Sacket's Harbor | 80                    | 80   | 80                       | -    | -                        | 30   | 30             | 100  | 8         | 32   | 32          | 32   | 4       |
| Hubbard        | Batavia         | 95                    | 95   | 105                      | -    | -                        | 35   | 35             | 100  | 8         | 32   | 32          | 32   | 4       |
| Hall           | Osage           | 50                    | 50   | 50                       | -    | -                        | 30   | 30             | 75   | 4         | 16   | 16          | 16   | 2       |
| Holmes         | Do              | 40                    | 42   | 45                       | -    | -                        | 10   | 10             | 25   | 3         | 12   | 12          | 12   | 4       |
| Judd           | Do              | 18                    | 20   | 20                       | -    | -                        | 5    | 5              | 50   | 4         | 16   | 16          | 16   | 2       |
| Wood           | Montgomery      | 20                    | 21   | 25                       | -    | -                        | -    | -              | 80   | 2         | 8    | 8           | 8    | 2       |
| Heath & Co.    | Herkimer        | 30                    | 40   | 50                       | -    | -                        | -    | -              | 90   | 4         | 16   | 16          | 16   | 2       |
| Paris, jun.    | Oneida          | 15                    | 15   | 15                       | -    | -                        | -    | -              | 120  | 6         | 16   | 16          | 16   | 2       |
| Alexander      | Do              | 60                    | 70   | 100                      | 4    | 4                        | 15   | 15             | 2    | 6         | 4    | 6           | 6    | 2       |
| Ten Eyke       | Madison         | 40                    | 40   | 40                       | 5    | 5                        | 120  | 120            | 4    | 16        | 16   | 16          | 16   | 2       |
| Cook & Co.     | Cavuga          | 150                   | 150  | 150                      | 35   | 35                       | 225  | 225            | 10   | 40        | 9    | 9           | 9    | 2       |
| Talcott        | Do              | 100                   | 100  | 100                      | 48   | 48                       | 120  | 120            | 5    | 20        | 4    | 4           | 4    | 2       |
| -              | Onandaga        | 60                    | 70   | 75                       | 15   | 18                       | 20   | 100            | 6    | 24        | 24   | 24          | 24   | 2       |
| -              | Do              | 50                    | 50   | 50                       | 10   | 10                       | 136  | 130            | 6    | 24        | 24   | 24          | 24   | 2       |
| A. Frost       | Clinton         | 60                    | 60   | 60                       | -    | -                        | 100  | 100            | 10   | 30        | 30   | 30          | 30   | 2       |
| Elma           | Do              | 20                    | 20   | 30                       | -    | -                        | 180  | 180            | 6    | 24        | 24   | 24          | 24   | 2       |
| R. Gordon      | St. Lawrence    | 65                    | 65   | 65                       | -    | -                        | 100  | 100            | 4    | 12        | 12   | 12          | 12   | 2       |
| D. Williams    | Chataque        | 20                    | 23   | 25                       | -    | -                        | 100  | 100            | 2    | 8         | 8    | 8           | 8    | 2       |
| Day            | Schoharie       | -                     | 15   | 20                       | -    | -                        | 75   | 100            | -    | 28        | 36   | 36          | 36   | 2       |
| Carmicle       | Rensselaer      | 50                    | 60   | 70                       | 13   | 15                       | 40   | 50             | 7    | 8         | 8    | 8           | 8    | 2       |
| Yates          | Yates           | 25                    | 26   | 27                       | 6    | 6                        | 30   | 30             | 2    | 8         | 8    | 8           | 8    | 2       |
| Duncan         | Chataque        | -                     | 30   | 30                       | -    | -                        | -    | -              | -    | -         | -    | -           | -    | 2       |
| -              | Saratoga        | 35                    | 40   | 45                       | 5    | 10                       | 50   | 50             | 3    | 12        | 12   | 12          | 12   | 2       |



|               | County.    | Tons pig met-<br>tle. |      |      | Bituminous<br>coal used. |      |      | Anthracite coal<br>used. |      |      | Cords of wood. |      |      | Laborers. |      |      | Dependants. |      |      | Cattle |
|---------------|------------|-----------------------|------|------|--------------------------|------|------|--------------------------|------|------|----------------|------|------|-----------|------|------|-------------|------|------|--------|
|               |            | 1828                  | 1829 | 1830 | 1828                     | 1829 | 1830 | 1828                     | 1829 | 1830 | 1828           | 1829 | 1830 | 1828      | 1829 | 1830 | 1828        | 1829 | 1830 |        |
| Badger        | Tompkins   | 40                    | 40   | 40   | -                        | -    | -    | 5                        | 5    | 5    | 150            | 150  | 150  | 5         | 5    | 5    | 20          | 20   | 20   | 4      |
| Zecock        | Oscego     | -                     | 40   | 40   | -                        | -    | -    | -                        | 5    | 5    | -              | 150  | 150  | -         | 5    | 5    | -           | 20   | 20   | 4      |
| Gibson        | Madison    | 60                    | 60   | 60   | -                        | -    | -    | 10                       | 10   | 10   | 100            | 100  | 100  | 10        | 10   | 10   | 40          | 40   | 40   | 8      |
| Seymore       | Montgomery | 100                   | 100  | 100  | -                        | -    | -    | 25                       | 25   | 25   | 100            | 100  | 100  | 15        | 15   | 15   | 60          | 60   | 60   | 4      |
| Daniels       | Oneida     | 50                    | 50   | 50   | -                        | -    | -    | 20                       | 20   | 20   | 50             | 50   | 50   | 6         | 6    | 6    | 24          | 24   | 24   | 2      |
| Harker & Pond | Do         | 86                    | 120  | 142  | -                        | -    | -    | 30                       | 43   | 49   | 64             | 109  | 196  | 9         | 9    | 9    | 36          | 36   | 36   | 2      |
| Carrington    | Do         | 200                   | 200  | 250  | -                        | -    | -    | 50                       | 60   | 60   | 150            | 150  | 150  | 16        | 16   | 16   | 63          | 63   | 63   | 4      |
| Wood & Co.    | Oswego     | 120                   | 120  | 120  | -                        | -    | -    | 30                       | 30   | 30   | 109            | 100  | 100  | 8         | 8    | 8    | 30          | 30   | 30   | 4      |
| Cady          | Oneida     | 20                    | 25   | 30   | -                        | -    | -    | -                        | -    | -    | 70             | 100  | 130  | 3         | 3    | 3    | 9           | 9    | 9    | 2      |
| Cornwall      | Do         | 30                    | 30   | 30   | -                        | -    | -    | -                        | -    | -    | 130            | 130  | 130  | 3         | 3    | 3    | 9           | 9    | 9    | 2      |
| Hall          | Oscego     | 25                    | 25   | 25   | -                        | -    | -    | 6                        | 6    | 6    | 50             | 50   | 50   | 2         | 2    | 2    | 8           | 8    | 8    | 1      |
| Runyon        | Do         | 20                    | 20   | 20   | -                        | -    | -    | -                        | 5    | 5    | -              | 50   | 50   | -         | 2    | 2    | -           | 8    | 8    | 2      |
| Adams         | Herkimer   | 150                   | 50   | 25   | -                        | -    | -    | -                        | -    | -    | 75             | 75   | 75   | -         | -    | -    | 20          | 20   | 20   | 1      |
|               | Do         | -                     | -    | -    | -                        | -    | -    | 34                       | 12   | 6    | 50             | 50   | 50   | 4         | 4    | 4    | 20          | 20   | 20   | 2      |

## BLAST FURNACES in the State of New York.

[ Doc. No. 308. ]

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| New York.             | Erected. | County.      | Tons pig iron made. |      | Tons of castings made. |      | Cords of wood consumed. |       |        | Men employed. |        |      | Persons dependent. |      |      | Horses and cattle. |      |  |
|-----------------------|----------|--------------|---------------------|------|------------------------|------|-------------------------|-------|--------|---------------|--------|------|--------------------|------|------|--------------------|------|--|
|                       |          |              | 1828                | 1829 | 1830                   | 1828 | 1829                    | 1830  | 1828   | 1829          | 1830   | 1828 | 1829               | 1830 | 1828 | 1829               | 1830 |  |
| Ontario               | 1825     | Ontario      | 40                  | 40   | 40                     | 100  | 100                     | 2,100 | 2,100  | 2,100         | 25     | 25   | 25                 | 75   | 75   | 20                 |      |  |
| Hanover               | 1820     | Oneida       | 50                  | 50   | 50                     | 100  | 100                     | 2,000 | 2,000  | 2,000         | 21     | 21   | 21                 | 70   | 70   | 20                 |      |  |
| Westmoreland          | 1800     | Oneida       | 50                  | 50   | 50                     | 100  | 100                     | 2,000 | 2,000  | 2,000         | 20     | 20   | 20                 | 80   | 80   | 15                 |      |  |
| Talburg               | 1811     | Oneida       | 150                 | 150  | 150                    | 280  | 280                     | 6,000 | 6,000  | 6,000         | 75     | 75   | 75                 | 300  | 300  | 80                 |      |  |
| Constantia            | 1816     | Oswego       | 25                  | 25   | 25                     | 140  | 150                     | 2,500 | 2,600  | 2,500         | 27     | 27   | 27                 | 87   | 87   | 19                 |      |  |
| Union                 | 1816     | Herkimer     | 30                  | 20   | 20                     | 160  | 188                     | 2,200 | 2,400  | 2,700         | 30     | 30   | 30                 | 90   | 90   | 20                 |      |  |
| Litchfield            | 1800     | Herkimer     | 70                  | 70   | 70                     | 80   | 80                      | 2,000 | 2,000  | 2,000         | 25     | 25   | 25                 | 70   | 70   | 20                 |      |  |
| Paris                 | 1809     | Oneida       | -                   | -    | -                      | 150  | 150                     | 2,000 | 2,000  | 2,000         | 25     | 25   | 25                 | 75   | 75   | 30                 |      |  |
| Lenox                 | 1816     | Oneida       | -                   | -    | -                      | 240  | 245                     | 3,675 | 3,675  | 3,675         | 40     | 40   | 40                 | 120  | 120  | 40                 |      |  |
| Walcott               | 1820     | Wayne        | -                   | -    | -                      | 150  | 150                     | 2,350 | 2,250  | 2,250         | 30     | 30   | 30                 | 90   | 90   | 20                 |      |  |
| Manchester            | 1819     | Ontario      | -                   | -    | -                      | 120  | 120                     | 1,800 | 1,800  | 1,800         | 25     | 25   | 25                 | 75   | 75   | 20                 |      |  |
| Etina                 | 1820     | Clinton      | 80                  | 50   | 25                     | 20   | 60                      | 75    | 1,500  | 1,500         | 1,500  | 28   | 28                 | 28   | 88   | 88                 | 9    |  |
| Peru Smelting Company | 1824     | Clinton      | 43                  | 43   | 43                     | 100  | 100                     | 2,700 | 2,700  | 2,700         | 37     | 37   | 37                 | 120  | 120  | 24                 |      |  |
| Armenia               | 1826     | Dutchess     | 400                 | 575  | 836                    | 4    | 3                       | 5     | 1,981  | 2,544         | 3,349  | 82   | 119                | 173  | 246  | 357                | 519  |  |
| Norfolk               | 1824     | St. Lawrence | 20                  | 20   | 20                     | 100  | 100                     | 100   | 1,250  | 1,250         | 1,250  | 16   | 16                 | 16   | 48   | 48                 | 8    |  |
| Carthage              | 1819     | Jefferson    | 310                 | 265  | 300                    | 195  | 210                     | 200   | 3,587  | 3,500         | 3,500  | 115  | 115                | 115  | 345  | 345                | 85   |  |
| Port Henry            | 1825     | Essex        | 70                  | 70   | 70                     | 70   | 70                      | 70    | 1,400  | 1,400         | 1,400  | 30   | 30                 | 30   | 90   | 90                 | 12   |  |
| Wilkesboro'           | 1825     | Essex        | -                   | 15   | -                      | -    | 60                      | -     | 900    | -             | -      | 15   | -                  | 45   | -    | 6                  |      |  |
| Southfield            | 1807     | Orange       | 669                 | 657  | 875                    | 24   | 26                      | 40    | 5,000  | 5,350         | 6,000  | 86   | 91                 | 130  | 364  | 40                 | 42   |  |
| Greenwood             | 1814     | Orange       | 1200                | 1300 | 1300                   | -    | -                       | -     | 9,000  | 9,000         | 9,000  | 140  | 140                | 140  | 550  | 550                | 100  |  |
| Cold Spring           | 1814     | Putnam       | -                   | -    | -                      | -    | -                       | -     | 800    | 800           | 800    | 20   | 20                 | 20   | 80   | 80                 | 12   |  |
| Cedar Pond            | 1818     | Orange       | 100                 | 100  | 100                    | -    | -                       | -     | 5,000  | 5,000         | 5,000  | 60   | 60                 | 60   | 240  | 240                | 40   |  |
| Anchorm               | 1700     | Columbia     | 500                 | 50   | 500                    | -    | -                       | -     | -      | -             | -      | -    | -                  | -    | -    | -                  | -    |  |
| Total                 | -        | -            | 3737                | 3980 | 4453                   | 2133 | 2334                    | 2263  | 60,743 | 63,969        | 63,215 | 951  | 1014               | 1092 | 3259 | 3459               | 772  |  |

\* Owned by Messrs. Kimbles; and this return was furnished by Gov. Kimble to Peter Townsend, for both furnaces.



## REFINING FORGES in the State of New York.

| New York. | Erected. | County.   | Tons of bar iron. |       | Cords of wood. |       | Men employed. |       | Number of dependants. |       |       | Horses and cattle. |       |
|-----------|----------|-----------|-------------------|-------|----------------|-------|---------------|-------|-----------------------|-------|-------|--------------------|-------|
|           |          |           | 1828.             | 1829. | 1828.          | 1829. | 1828.         | 1829. | 1828.                 | 1829. | 1830. | 1828.              | 1829. |
| Carthage  | 1816     | Jefferson | 130               | 100   | 1,300          | 1,000 | 16            | 16    | 48                    | 48    | 48    | 9                  | 9     |
| T. Ward   | 1800     | Rockland  | 100               | 100   | 1,100          | 1,100 | 16            | 16    | 64                    | 64    | 64    | 12                 | 12    |
| A. Dator  | 1800     | Rockland  | 100               | 100   | 1,100          | 1,100 | 16            | 16    | 64                    | 64    | 64    | 12                 | 12    |
| E. Suffer | 1810     | Rockland  | 30                | 30    | 360            | 360   | 6             | 6     | 24                    | 24    | 24    | 2                  | 2     |
| Sterling  | 1770     | Orange    | 90                | 90    | 900            | 1,000 | 14            | 16    | 42                    | 64    | 96    | 8                  | 8     |
| Anchram   | 1770     | Columbia  | 200               | 200   | 2,000          | 2,000 | 25            | 25    | 100                   | 100   | 100   | 16                 | 16    |
|           |          |           | 651               | 630   | 6,760          | 6,560 | 93            | 95    | 348                   | 364   | 396   | 59                 | 59    |

## BLOOMERIES.

| New York.         | Erected. | County.     | Tons bar iron. |       | Cords of wood consumed. |       | Men employed. |       | Persons dependent. |       |       | Horses and cattle. |       |
|-------------------|----------|-------------|----------------|-------|-------------------------|-------|---------------|-------|--------------------|-------|-------|--------------------|-------|
|                   |          |             | 1828.          | 1829. | 1828.                   | 1829. | 1828.         | 1829. | 1828.              | 1829. | 1830. | 1828.              | 1829. |
| Marshall          | 1800     | Oneida      | 40             | 40    | 800                     | 800   | 11            | 11    | 36                 | 36    | 36    | 10                 | 10    |
| Matilda           | 1820     | St Lawrence | 60             | 60    | 900                     | 900   | 16            | 16    | 46                 | 48    | 48    | 16                 | 16    |
| Pottadam          | 1829     | St Lawrence | -              | 20    | 300                     | 300   | -             | 9     | -                  | 27    | 27    | -                  | 4     |
| Norfolk           | 1824     | St Lawrence | 75             | 75    | 1,150                   | 1,150 | 25            | 25    | 75                 | 75    | 75    | 28                 | 28    |
| Stockholm         | 1825     | St Lawrence | 50             | 50    | 750                     | 750   | 15            | 15    | 45                 | 45    | 45    | 12                 | 12    |
| Litchfield        | 1805     | Herkimer    | 15             | 20    | 250                     | 250   | 5             | 5     | 15                 | 15    | 15    | 4                  | 4     |
| Forbs & Co.       | 1824     | Washington  | 70             | 70    | 1,050                   | 1,050 | 30            | 30    | 90                 | 90    | 90    | 19                 | 12    |
| Peru Iron Company | 1826     | Essex       | 500            | 500   | 7,142                   | 7,142 | 205           | 205   | 667                | 667   | 667   | 98                 | 98    |
| Willkborough      | 1810     | Essex       | 80             | 82    | 1,250                   | 1,274 | 20            | 23    | 66                 | 68    | 68    | 16                 | 16    |
| Maria, 2 forges,  | 1828     | Essex       | 50             | 80    | 2,400                   | 2,400 | 24            | 36    | 72                 | 108   | 108   | 22                 | 32    |
| Westport          | 1825     | Essex       | 70             | 71    | 1,050                   | 1,078 | 20            | 22    | 64                 | 64    | 64    | 14                 | 14    |
| Constable         | 1826     | Franklin    | 50             | 50    | 750                     | 750   | 14            | 14    | 48                 | 48    | 48    | 10                 | 10    |

|      |                       |       |        |        |       |       |       |       |     |     |
|------|-----------------------|-------|--------|--------|-------|-------|-------|-------|-----|-----|
| 1829 | Franklin              | 50    | 50     | 750    | 16    | 16    | 56    | 56    | 10  | 10  |
| 1827 | Essex                 | 75    | 75     | 1,125  | 25    | 25    | 75    | 75    | 25  | 25  |
| 1827 | Essex                 | 75    | 75     | 1,125  | 25    | 25    | 75    | 75    | 25  | 25  |
| 1824 | Crown Point           | 40    | 20     | 600    | 12    | 8     | 36    | 24    | 10  | 8   |
| 1820 | Ticonderoga           | 30    | 30     | 450    | 10    | 10    | 30    | 30    | 10  | 10  |
| 1826 | Bolton                | 60    | 60     | 900    | 20    | 20    | 60    | 60    | 20  | 20  |
| 1824 | Wilmington, 2 forges, | 154   | 154    | 2,300  | 45    | 45    | 140   | 140   | 36  | 36  |
| 1826 | Essex                 | 60    | 60     | 900    | 20    | 20    | 60    | 60    | 20  | 20  |
| 1828 | Clinton               | 112   | 112    | 1,675  | 35    | 35    | 103   | 103   | 22  | 22  |
| 1812 | Essex                 | 71    | 71     | 1,076  | 24    | 24    | 68    | 68    | 14  | 14  |
| 1826 | Essex                 | 71    | 71     | 1,050  | 22    | 22    | 64    | 64    | 12  | 12  |
| 1826 | Essex                 | 72    | 72     | 1,150  | 24    | 24    | 68    | 68    | 14  | 14  |
| 1827 | Essex                 | 263   | 263    | 4,000  | 80    | 80    | 238   | 238   | 48  | 48  |
| 1821 | Lewis, 4 forges       | 71    | 71     | 1,050  | 22    | 22    | 64    | 64    | 12  | 12  |
| 1809 | Wilabrow              | 80    | 80     | 1,200  | 26    | 26    | 75    | 75    | 16  | 16  |
| 1826 | Essex                 | 70    | 70     | 1,050  | 22    | 22    | 64    | 64    | 12  | 12  |
| 1820 | Clinton               | 75    | 75     | 1,050  | 22    | 22    | 64    | 64    | 12  | 12  |
| 1820 | Clinton               | 76    | 76     | 1,125  | 22    | 22    | 64    | 64    | 12  | 12  |
| 1820 | Clinton               | 63    | 63     | 825    | 19    | 19    | 56    | 56    | 12  | 12  |
| 1821 | Clinton               | 394   | 394    | 5,950  | 106   | 106   | 336   | 336   | 86  | 86  |
| 1825 | Clinton               | 51    | 51     | 750    | 15    | 15    | 48    | 48    | 10  | 10  |
| 1825 | Clinton               | 122   | 122    | 1,825  | 42    | 42    | 124   | 124   | 24  | 24  |
| 1818 | Clinton               | 121   | 121    | 1,815  | 41    | 41    | 121   | 121   | 24  | 24  |
| 1820 | Clinton               | 70    | 70     | 1,075  | 21    | 21    | 63    | 63    | 13  | 13  |
| 1823 | Essex                 | 91    | 91     | 1,375  | 27    | 27    | 84    | 84    | 22  | 22  |
| 1827 | Essex                 | 76    | 76     | 1,150  | 23    | 23    | 66    | 66    | 15  | 15  |
| 1824 | Jay                   | 91    | 91     | 1,375  | 28    | 28    | 86    | 86    | 22  | 22  |
| 1825 | Wilmington            | 150   | 150    | 3,000  | 60    | 60    | 240   | 240   | 40  | 40  |
| 1820 | Putnam                | 3,565 | 3,759  | 54,862 | 1,161 | 1,232 | 3,614 | 3,822 | 798 | 840 |
|      |                       | 3,767 | 58,303 | 58,353 | 1,239 | 1,239 | 3,837 | 840   | 842 |     |

DOCUMENT 10.—No. 43.—Continued.  
*NAIL FACTORIES and ROLLING MILLS in the State of New York.*

| County, &c.                     | Tons of nails. |      | Tons of hoops, &c. |      | Workmen. |      | Dependants. |      | Anthracite coal. |      | Bituminous coal. |      | Chain cables. |      | Cattle. |      | Cords wood. |      |
|---------------------------------|----------------|------|--------------------|------|----------|------|-------------|------|------------------|------|------------------|------|---------------|------|---------|------|-------------|------|
|                                 | 1828           | 1829 | 1828               | 1829 | 1828     | 1829 | 1828        | 1829 | 1828             | 1829 | 1828             | 1829 | 1828          | 1829 | 1828    | 1829 | 1828        | 1829 |
| Troy nail works                 | 519            | 550  | 630                | 800  | 1000     | 1360 | 40          | 40   | 40               | 500  | 600              | -    | -             | -    | 4       | 4    | 200         | 200  |
| Albany do                       | 289            | 387  | 410                | 592  | 728      | 828  | 40          | 40   | 40               | 200  | 200              | 300  | -             | -    | 4       | 4    | 200         | 200  |
| Carthage, Jefferson             | -              | 9    | 33                 | -    | 10       | 35   | -           | 5    | 5                | 1    | 20               | 20   | -             | -    | -       | 1    | -           | 50   |
| Clintonville Pe-<br>ru Iron Co. | -              | 624  | 624                | 1000 | 1000     | 1000 | 50          | 50   | 50               | 102  | 102              | 102  | -             | -    | 10      | 10   | 3000        | 3000 |
| Hulbert, Clinton                | -              | -    | -                  | 500  | 500      | 600  | 18          | 24   | 24               | 54   | 72               | 72   | -             | -    | 3       | 3    | 432         | 576  |
| Do do                           | 300            | 300  | 300                | -    | -        | -    | 17          | 17   | 17               | 50   | 50               | 50   | -             | -    | 10      | 10   | 1500        | 1500 |
| Monroe, Orange                  | 420            | 420  | 420                | 500  | 500      | 500  | 8           | 8    | 8                | 8    | 8                | 8    | -             | -    | 2       | 2    | 100         | 100  |
| Ramapo, Beck-<br>hand           | 1100           | 1100 | 1100               | 1442 | 1442     | 1442 | 100         | 100  | 100              | 400  | 400              | 400  | -             | -    | 36      | 36   | 1500        | 1500 |
|                                 | -              | -    | -                  | -    | -        | -    | 100         | 100  | 100              | 24   | 24               | 24   | -             | -    | 90      | 90   | 3000        | 3000 |

  

| New York.           | County. |       | Tons of anchors. |       | Cords of wood. |       | Men employed. |       | Dependants. |       | Cattle. |       |
|---------------------|---------|-------|------------------|-------|----------------|-------|---------------|-------|-------------|-------|---------|-------|
|                     | 1828.   | 1829. | 1828.            | 1829. | 1828.          | 1829. | 1828.         | 1829. | 1828.       | 1829. | 1828.   | 1829. |
| Forbs and Griswold  | 30      | 30    | 300              | 300   | 300            | 300   | 10            | 10    | 30          | 30    | 4       | 4     |
| Paulding and Haakin | 60      | 60    | 600              | 600   | 600            | 600   | 20            | 20    | 60          | 60    | 8       | 8     |
|                     | -       | -     | -                | -     | -              | -     | -             | -     | -           | -     | -       | -     |

The above is an account of the anchors made.

This abstract was prepared by Mr. Peter Townsend, from original accounts made by himself on a personal examination. It embraces every iron establishment in the State. Mr. T. is a highly respectable gentleman, (long acquainted with this branch of American manufacture,) residing in the city of New York.

## DOCUMENT 10.—No. 49.

*Statistics of the Valley of the Ausable river, Essex and Clinton Counties, New York.*

We give particulars only for Peru, bordering the Ausable on the north; and Chesterfield, Jay, Wilmington, and Keene, touching the same river and its branches, on the south.

The village of Keeseville is situated in the valley of the Ausable river, about four miles from Lake Champlain. In this village, there are,

10 stores; 3 forge fires; 5 saw mills; 2 grist mills; 1 extensive rolling and slitting mill; 1 extensive nail factory; 1 furnace connected with an iron machine shop; 2 tanneries, one of which is extensive; 1 extensive brewery; 1 printing office; 1 tin and sheet iron manufactory; 1 woollen manufactory; 1 gun manufactory.

The village of Birmingham is about one mile below Keeseville, on the Ausable river, in which there are,

3 forge fires; 1 woollen factory; 2 saw mills; 1 store.

Clintonville is six miles above Keeseville, on the Ausable, where there are, 17 forge fires; 1 extensive rolling and slitting mill; 1 chain cable factory; 1 nail manufactory, making 2 tons of nails per day; 1 grist mill; 2 saw mills; 6 stores.

Sweden, two miles further up the river Ausable, contains,

2 stores; 3 forge fires; 2 saw mills.

Ausable Forks, 3 miles from Sweden, contains,

4 forge fires; 4 saw mills; 2 stores; 1 trip hammer.

One mile further up the river, is another extensive saw mill.

The north branch of the Ausable passes through the towns of Wilmington and Keene, on which, as well as on the south branch that runs through Jay and Keene, there are extensive iron and lumber manufactories; also, in the above towns, there are a number of mercantile establishments and smaller manufactories; the number not ascertained.

On Black Brook, two miles from the Ausable, there is an extensive saw mill, and will also be erected there during the ensuing season, 2 forges, having 6 fires. Pursuing the Port Kent and Hopkinton road west, 11 miles from the Forks of the Ausable to the falls of the Saranac, where will be erected in the spring an extensive iron establishment, the company having already contracted for the building of a forge with six fires. Six miles further up the same stream, is also another forge and saw mill in operation.

The town of Peru, in Clinton county, in which a part of the village of Keeseville is situated, contains about five thousand inhabitants, and pays about one-third of the tax of the whole county. There are on the Little Ausable river, which passes through this town, 6 forge fires, 7 saw mills, 1 woollen factory, 1 grist mill, and one blast furnace, besides several smaller factories of various kinds, and eight mercantile establishments. The town of Chesterfield, in Essex county, in which also a part of the village of Keeseville is situated, has a population of about 2000; and, on the small streams which empty into the Ausable, are four or five saw mills; and about six miles from Keeseville, in a southerly direction, is an extensive iron establishment, called the "Highland Iron Works."

Port Kent, about four miles from Keeseville, on Lake Champlain, is a place of very considerable business, being the landing and forwarding place of the valley of the Ausable, and has as extensive and permanent wharves as is to be found on Lake Champlain, with two large store-houses and two extensive mercantile establishments.

The advantageous situation of Keeseville, in the valley of the Ausable, surrounded by the villages above referred to, and the concentration and diverging of the roads to and from it in all directions, renders it the most natural and eligible place of business in the valley of Ausable.

The estimated value of the exports in iron, from the valley of the Ausable alone, during the year 1831, was about \$280,000; in lumber, \$100,000.

Within three miles of the Ausable river are two extensive iron ore beds, from one of which the ore is raised by a steam engine, and at the other, the ore is separated by Browning's patent separating machine, which ore beds sell from \$30,000 to \$40,000 worth of ore annually.

The Port Kent and Hopkinton road also passes near the bed of native steel ore lately discovered by James Duane, which promises to add much to the wealth and productive industry of the country.

Some estimate may be formed of the rapid increase of business of this section of country, from the fact that there are already under contract for erection the ensuing spring, 23 forge fires, which will add to the amount of iron business from 80 to 90 thousand dollars.

The towns of Westport, Essex, Willsborough, Lewis, and Elizabethtown, in Essex county, manufacture and export, annually, at least from 125 to \$150,000 in iron and lumber, the

## DOCUMENT 10—No. 49—Continued.

banking accommodations required for which, would necessarily be transacted at Keeseville.

It has been ascertained, from an examination of the accounts of business men in the valley of the Ausable, that within the last six months they have done business with banks to the amount of \$230,000.

This statement may be relied on with confidence, as an accurate view of the actual condition of the valley of the Ausable.

J. A. DIX.

## DOCUMENT 10.—No. 50.

*Manufactories of Salt, situate in the town of Salina, in the County of Onondaga, in the State of New York, March, 1832.*

| QUESTIONS.                                                                                   | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. By what power—water, steam, or what other?                                                | 1. The pumps for supplying the manufactories with brine are propelled by the surplus waters of the Erie and Oswego canals. The salt works occupy four villages, Salina, Syracuse, Liverpool and Geddes, all in the town of Salina. At Salina there are two pumps from which the water is conveyed in logs to Syracuse, a distance of $1\frac{1}{2}$ miles, and to Liverpool, a distance of 3 miles. The village of Geddes has a separate pump to supply the works in its neighborhood. The two pumps at Salina have cost from 25 to 30 thousand dollars. |
| 2. When established; and whether a joint stock concern?                                      | 2. The grounds upon which the salt manufactories are constructed, are the property of the State. The only erections belonging to the State are pumps and machinery for supplying the manufactories with brine, for which the manufacturers pay 2 mills per bushel of salt. The lots on which the manufactories are constructed, are leased by the State to individuals for a term of years without rent, or any consideration excepting the duty of $12\frac{1}{2}$ cents per bushel (about 150 per cent. on the cost) on the salt manufactured.         |
| 3. Capital invested in ground and buildings, water power and machinery?                      | 3. There are in the four villages 135 manufactories of fine salt, containing each from 20 to 40 kettles, the capacity of which is from 90 to 150 gallons each. The cost of the erections is not less than \$350,000. There are, also, six manufactories of coarse salt, with erections to the value of about \$25,000; and about 200 acres of ground covered with vats for making salt by solar evaporation belonging to two companies, with a capital of \$75,000 each. Total investment, including pumps, about \$430,000.                             |
| 4. Average amount in materials, in cash for the purchase of materials, and payment of wages? | 4. About \$75,000 for workmen engaged in the manufacture of salt alone, and about \$75,000 for barrels, and packing, and preparing the salt for market. The sum of \$123,769 86 was paid in ten months of 1831, for duties to the State. This is, however, exclusive of salaries and expenses of superin-                                                                                                                                                                                                                                                |

## DOCUMENT 10.—No. 50.—Continued.

| QUESTIONS.                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6. How much of the capital is borrowed, and what interest is paid on it?                                                               | tendence, &c. The actual amount of duties paid by the manufactories during the whole year was \$180,194 87. These items, added to the value of fuel consumed, amount to about \$450,000.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 7. What has been the rate of profits annually for the last three years: if a joint stock company, what dividends have been received?   | 6. Nearly the whole amount of the capital employed for the purchase of materials, payment of wages, duties, &c., is borrowed from the banks on 90 days' paper, at 7 per cent., making something more than 7½ per cent. per annum.                                                                                                                                                                                                                                                                                                                                                                              |
| 9. Causes of the increase (or decrease) of profit at different periods of time?                                                        | 7. The profit on the capital invested, and money borrowed, after making the proper deduction for repairs, superintendence, &c., has not exceeded 8 or 9 per cent.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 10. Rates of profit on capital otherwise employed in the same county and State?                                                        | 9. The profits have varied from time to time, but not so as to enable the fluctuations to be reduced to certainty. Among the causes the most prominent, are the great number of persons engaged in manufacturing, all having separate interests, and entering into an active competition; scarcity of fuel at some periods, and the difficulty of procuring laborers at others.                                                                                                                                                                                                                                |
| 11. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 10. The legal rate of interest is 7 per cent., and it is believed that the average rate of profit on capital otherwise employed does not differ materially from it.                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 14. Number of men, women and children employed, and average wages of each class?                                                       | 11. In 1829, 1,291,820 bushels, and in 1830, 1,435,446 bushels. In the year 1831, 1,441,559 bushels were produced. 189,000 bushels of this was coarse salt, of which 161,753 bushels were produced by solar evaporation, and the residue by artificial and solar heat combined.                                                                                                                                                                                                                                                                                                                                |
| 15. How many hours a day employed, and what portion of the year?                                                                       | 14. None but males.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 16. Rate of wages of similar classes otherwise employed in the same State and county?                                                  | 15. The coarse salt produced by solar evaporation is all made between the months of March and November, and nearly all the fine salt. Persons employed as laborers in boiling are usually paid 2 cents per bushel, and the best workmen will earn from \$1 to \$1 50 cents per day, from which they have to pay their board, amounting to \$1 75 per week. Those who pack the salt away in barrels, and prepare it for market, are paid by the barrel, and earn about as much. Their labor is very fatiguing, and exposes them to excessive heat in drawing the salt from the boiling kettles in warm weather. |
| 18. Whether the manufactures find a vent at the manufactory? If not, how far they are sent to a market?                                | 16. \$120 per annum, or \$10 per month, and their board found.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                                                        | 18. A small portion of the salt, say 18,000 bushels, is sold at the place of manufacture; a large portion is sent to Albany, and some to the city of New York. A considerable quantity is also sent to Vermont by the Champlain canal, about 80,000 barrels find                                                                                                                                                                                                                                                                                                                                               |

| QUESTIONS.                                                                                                                                                                                                                                                    | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>19. Whether foreign articles of the like kind enter into competition with them at such place of sale?</p>                                                                                                                                                  | <p>their way through the Erie canal to Buffalo, and thence by Lake Erie to the western part of Lake Erie, the northeastern part of Ohio, the Territory of Michigan, and the northern part of Indiana. From 12 to 15 thousand barrels are sent to Pennsylvania by way of the Susquehanna river.</p> <p>19. They do at Albany and New York, and also in Ohio and Canada. In 1831 the Canal Board found it necessary to impose an additional toll on the foreign article transported on the Erie and Champlain canals in order to countervail the reduction of the impost by the act of Congress of 29 May, 1830, and thus to protect the domestic in our own markets. The reduction of the duty on foreign salt operates as a contraction of the circle supplied by the domestic article, and the exterior of this circle is beyond the limits of the State of New York in all directions from the point of manufacture, and therefore not within the operation of its laws.</p> |
| <p>20. Where are the manufactures consumed?</p>                                                                                                                                                                                                               | <p>20. At the places where they are sent for a market. (See query 18.)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p>21. Whether any of the manufactures are exported to foreign countries? If so, where?</p>                                                                                                                                                                   | <p>21. About 50,000 bushels are annually sent to Canada, principally to the upper Province.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <p>22. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?</p>                                                                                                                                 | <p>22. In the markets to which it is sent, as specified under query 18, it is usually sold for cash. That portion which is sold at the place of manufacture, is bartered for almost every species of agricultural production.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p>23. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?</p> | <p>23. The article of wood constitutes one of the principal items of the expense of the manufacture, and the price is gradually advancing, as that which is most convenient is consumed. It has been for the last six years \$1 25 cents per cord, but it is believed that it will, during the next six, average at least \$1 50. A gradual increase in the cost of manufacture is to be expected. So far, however, the effect has not been produced, as the construction of the Erie and Oswego canals has afforded facilities for procuring fuel which has more than counteracted the advance in price. The cost of manufacture has also been diminished by improvements in the construction of the manufactories, and the discovery of a brine of superior quality.</p>                                                                                                                                                                                                     |
| <p>24. The prices at which the manufacture has been sold by the manufacturer since the establishment?</p>                                                                                                                                                     | <p>24. From 1807 to 1812, the price of salt was from 15 to 25 cents per bushel. From 1812 to 1815 the price was about 50 cents the greater part of the time, in consequence of the high price of provisions, and all other commodities; the difficulty of procuring laborers, the increased demand for salt by the diminution of the supply of the foreign article through the interruption of commerce, and the great quantity of money thrown into</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## QUESTIONS.

25. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?

28. What amount of the agricultural productions of the county is consumed in your establishment, and what amount of other domestic productions?

29. What quantity or amount of manufactures, such as you make, is produced in the United States, and what amount in this State?

## ANSWERS.

that part of the State which was the principal theatre of military operations. The present price is from 8 to 9 cents at the works. It is sometimes as high as 12½ cents, but quite as frequently as low as 6 cents. This is, of course, exclusive of the duty to the State.

25. The present impost (10 cents per statute bushel of 56 lbs.) is necessary to secure for the Onondaga salt a market at Albany. Indeed, it is apprehended that the foreign salt will expel it altogether. In 1831 the price of salt rose, but the reason is obvious. Although the duty on foreign salt was reduced 5 cents per bushel, there was a further prospective reduction of 5 cents, and the consequence was, that importations were delayed to a great extent, that the reduction might attain its maximum. As a prospective increase of duty on foreign articles produces a glut of the market, by inducing large importations before the increase takes effect, so a prospective decrease of duty has an opposite effect by discouraging importations until the decrease takes effect. It is believed that in 1832 the additional toll imposed by the Canal Board on foreign salt transported on the canals, will be the only protection for the domestic article north, northeast, and in the western vicinity of Albany. It should, also, have been remarked, that the want of the usual supply of foreign salt in New York in 1831, was, in some degree, produced by the great demand for shipping, in consequence of the restoration of the West India trade; a cause which will cease to operate as that demand is supplied. In the course of the summer, large and numerous return cargoes of salt may be expected.

28. About 90,000 cords of wood annually.

29. There are no other salt works in the State excepting at Montezuma, in Cayuga county. There the ground is the property of individuals, and the State has no interest except in the duty, or excise (12½ cents per bushel) to which the manufacture is subject. It appears from the amount of duty paid during the fiscal year ending on the 31st January, 1830, that the whole amount inspected was 11,481½ bushels; and during the 11 months ending the 31st December, 1830, only 3,894 bushels. No return has since been received. It is well known that much more is manufactured and fraudulently conveyed from the works without being inspected, in order to evade the duty. The brine is much weaker, and it could not, if it paid the duty,



| QUESTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>30. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent, would it cause you to abandon your business, or would you manufacture at reduced prices?</p> <p>31. If it would cause you to abandon your business, in what way would you employ your capital?</p> <p>32. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent?</p> <p>33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent, and how gradual should the reduction be?</p> <p>34. Average profit of money or capital in your county?</p> <p>35. Average rate of wages in you county?</p> | <p>enter into competition with the Onondaga salt. All these circumstances have rendered the collection of the excise odious and difficult.</p> <p>30. It would cause an abandonment of the business by a portion of the manufactories by contracting the circle supplied by the domestic article, and thus diminishing the demand for it. To countervail the operation of the reduction of the impost by the act of Congress of 1830, at the exterior of the circle, measures have already been taken to amend the constitution of New York, in order to reduce the excise, or State duty, on the domestic article.</p> <p>31. The capital would, of course, be lost, so far as it is invested in fixtures. Almost every part of the manufactories is inapplicable to any other business, excepting kettles for the manufacture of fine salt, which are the common potash kettles.</p> <p>32. Almost any other.</p> <p>33. Any reduction would diminish the amount manufactured, rather than the rate of profit. This is one of the necessities of life, and the reduction of price will not so materially increase the quantity consumed, as in the case of a comfort or mere luxury, where the effect of a reduction of price is to bring it within the reach of an additional class of consumers. Although farmers and others would use it more freely at a reduced price, the most powerful stimulant of production would be an extension of the circle supplied; for the same reason, a contraction of the circle supplied is the greatest discouragement of production, and this is an inevitable consequence of a diminution of the duty on the foreign article, which is in every direction pressing upon the domestic.</p> <p>34. About equal to the <i>market</i> value of money, which fluctuates in ordinary times between 5 and 10 per cent.</p> <p>35. For laboring men \$10 per month, and board. Mechanics 12 to \$14, and board.</p> |

The answers contained herein were given by the Superintendent, and one of the principal manufacturers of the salt-works, or taken from the annual report of the Comptroller to the Legislature of New York, for 1831.

JOHN A. DIX.

I should have added that these answers were given at a personal interview with the gentleman referred to.

J. A. D.

## DOCUMENT 10.—No. 51.

*Statistics of the County along and near the Esopus creek, Ulster County, New York.*

The factories on the Esopus creek, running through the village of Ulster, at present in a flourishing condition, are—

I. An iron mill, making hoop and sheet iron, boiler and nail plate, round, square, and flat iron, of all sizes, to the amount of \$500,000 annually.

II. A paper mill, with patent machinery, supplying paper to the amount of \$150,000 yearly.

III. A paint mill, for the manufacture of white lead and other paints, now sending to market stuffs amounting to more than \$250,000 per annum, with facilities for an increase to a still larger amount.

IV. A brewery, now in successful operation, capable of making 4 or 5000 barrels of ale during the season.

V. A patent chair and sash factory, not yet in full operation, which promises to make good returns to its holders: And,

VI. A cotton and woollen factory on an immensely large scale, which is contemplated to be built during the coming season.

The commerce of West and East Camp, Glasco, Bristol, Saugerties, and Red Hook, all in the immediate neighborhood, employs 25 sloops, schooners, &c. in the exportation of country produce and manufactured articles, and in return cargoes.

The Esopus creek, a large portion of whose waters is yet unimproved, affords, for a distance of several miles, power to any extent for the driving of machinery; and its banks are such as to allow the greatest facilities for the erection of factories.

The tanneries in the neighborhood of Ulster and the adjoining towns, employ a capital of \$500,000, and centre their carrying trade in Ulster, as being the nearest to the river.

Two old and large establishments for the manufacture of glass are situated in the adjoining town, immediately back from the village.

The applicants for a charter for the bank at Ulster, are desirous that the merits of their claim should be strictly examined, and trust with great confidence in the strength of their petition.

The manufacturers and merchants of Ulster, Dutchess, and Columbia, residing in the vicinity of Ulster, derive little or no benefit from the banks at Kingston, Catskill, Hudson, and Poughkeepsie, from the expense and inconvenience attending the distance of their location.

This statement is worthy of entire credit. Two applications were made to procure answers to the queries of the Treasury Department, from the agents of the iron mill referred to, but without success.

J. A. DIX.

## DOCUMENT 10.—No. 52.

New York, April 3, 1833.

DEAR SIR: I have found more difficulty than I contemplated in obtaining information on the cost and charges of importation of foreign iron, which I mention only to account for the delay of my communication.

English common iron was held in February at £6 sterling per ton; the shipping charges, exclusive of commissions, would be 6s.; the fair freight, 12s. 6d. An English agent informs me that the average charges, including freight, have been on bar and pig about 7 dollars per ton, and this, I should think, about the mark. The selling price of this iron, is now, per cargo, 70 to 72½. Common Russia and Swedish iron costs abroad, at this time, 11 to £12, and the charges would be somewhat higher, as the freight is more. "Old Sable" about £14. The first now command 85 to 86 dollars; the last 95 to 100. Of the last, the quantity used is not large, and principally for edge tools.

I send you by this mail a copy of the iron report to the New York Convention, which contains the information then received. The returns since received lead to the belief that the entire quantity will exceed that therein stated, and that the proportions of bar iron and castings may somewhat vary.

Very respectfully, your obedient servant,

B. B. HOWELL.

Gen. DIX.

## DOCUMENT 10.—No. 53.

*Questions and Answers—the latter by Mr. Francis Thompson.*

| QUESTIONS.                                                                                                                                                                                                     | ANSWERS.                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Is any change necessary in levying and collecting the duty on imported woollens, to prevent fraud?                                                                                                          | 1. Yes; to prevent frauds it is believed that a change from the minimums to an ad valorem duty is necessary.                                                                                                                                                                                                                                                   |
| 2. If minimums should be abolished and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum? | 2. As a great proportion of woollens imported are invoiced to come just under the minimums, thereby paying duty of 45 per cent., and as there will always, under the minimum system, be frauds to a certain extent practised, it is believed that 35 ad 40 per cent. ad valorem will be a better protection, and yield as much revenue, as the present system. |
| 3. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                                             | 3. The change would, it is thought, prevent frauds.                                                                                                                                                                                                                                                                                                            |

## DOCUMENT 10.—No. 54.

*Opinion on a Change in the existing mode of Levying and Collecting Duties on Woollens, &c.*

WALDEN, ORANGE Co., 4th April, 1832.

DEAR SIR: I have before me your circular, with the queries proposed by the Secretary of the Treasury. As I am not a manufacturer, nor at this time interested in any, I will not attempt to give the answers to those queries, but avail of your invitation to offer my *mite* of information, in the hope that it may, in some way, be serviceable.

Nothing is more desirable to every branch of industry, than that the General Government should possess correct statistical information as to all the great interests of the country, as a basis for legislation. For, by such aids, every member of Congress would be enlightened, many gross errors avoided, and the safety of every interest be secured; but to effect this, as in every thing, the means should be equal to the end proposed; and, in my humble opinion, nothing short of a permanent Home Department, or a board of business-men at the seat of Government, expressly charged with that duty, could do justice to the subject.

Having for many years devoted much attention to the progress of manufactures in our country, and to the policy of the Government on that subject, I look with much solicitude for a *consistent course* at this time, and regret exceedingly that Congress has thought necessary, at this late hour, to commence a course of minute inquiries bearing on a subject that has been so long and so ably discussed in Congress and throughout the country. It indicates, to my apprehension, that, in the proposed revision of the tariff, gross and destructive errors may be committed from want of due information. I cannot better serve the honorable Secretary of the Treasury than by soliciting his particular attention to the reports emanating from the New York Convention, held in October last. I consider those reports as having embodied a greater mass of important *facts* bearing on the great question of the protecting policy than has ever yet been produced in this country, and that those reports are worthy of all confidence as far as they extend. That Convention embraced more than five hundred delegates from the different States—men of the first standing in society, and representing the agricultural, manufacturing, and commercial interests, with great ability. The honorable Judge Wilkins (now of the Senate) presided, and nearly the whole of the Convention were divided into committees, charged with the duty of collecting and arranging all *facts* regarding these great interests, and the operation of the protecting system upon those interests. I will venture to add, that it is hardly possible that information equally worthy of confidence can be procured from any other source in time for Congress to act upon it.

In the belief that it will be well received, I beg leave to offer to the consideration of the honorable Secretary of the Treasury the following remarks, as to the great question of such

a revision of the tariff as will reduce the revenue, and at the same time maintain protection to our national industry, and quiet the excitement at the south. That section of the country appears to labor under very mistaken views as to the *extent* of the protection by duties afforded to our manufactures: they may be satisfied by simplifying the revenue laws, and making that plain which now is not comprehended by them. I have long entertained the views lately suggested by Judge Wilkins in the Senate, and cannot perceive why they should not prevail.

First. That all ad valorem duties should be charged on the current market value of the goods in *our own markets*, at the time of importation.

Second. That all duties shall be paid in cash, before the delivery of the goods from the custom-house keys.

These simple provisions will guard against many abuses, and, being established as fixed law, I am persuaded that the duties on all cotton goods may be fixed at about 30 per cent. ad valorem, and on all woollen goods at about 40 per cent. ad valorem.

The duty of 30 per cent. on cotton goods is required to guard our citizens against the pauper-labor, overgrown capital, and the desperate struggle of the British to regain our market by overwhelming our manufacturers in the quantity of goods to be forced upon us—what they call a losing game, to gain a market. The duty of 40 per cent. on woollens (and perhaps something more) may be required for the same reasons, and further to meet the high duties on wool, indigo, and many other articles used in the manufacture, which are imposed (and justly) to encourage the growth of those articles in this country. The British have adopted the opposite policy as to all raw materials.

The duty should be charged on the value in our market, to make the amount of protection *specific and certain* to our manufacturers, and well understood by the southerners. The duties should be paid in cash, if only to break up an infamous system, based on the Government credit for duties, alike destructive to the interests of sound commerce and the interests of manufactures, and which is mainly availed of by British agents, to subserve the interests and views of their employers in flooding this country with their goods. Much, very much may be said, and *proved, abundantly*, as to this great evil of *custom-house credits*, which has been a curse to the country for more than twenty years, and is utterly unknown in any other commercial country.

To *decrease the duties on foreign manufactures* would increase the importations, and, of course, the revenue, so long as we possessed any ability to purchase. It would, moreover, palsy the industry of the country in every limb, and *divide the country by despair*. The country has asked protection against foreign rivalry; it has been discussed for more than sixteen years, and granted; the policy is considered *fixed*; the public faith rests on it for the safety of immense investments, and the support of *every interest in the community*. It therefore seems impossible that the present Congress can venture to disturb a policy under which the country has thrived, beyond all precedent even in our own history.

If *ample protection is assured* to manufacturing industry, we have abundant proof in our own experience, that *competition at home* will reduce the price of goods to the minimum, affording but fair reward for labor and capital employed in the business. This being done, we need not apprehend either *smuggling*, or too much revenue from that source. It would, therefore, seem wise to look for revenue only to such articles of import as we do *not grow*, and *cannot make* beneficially.

If high duties are deemed a *tax*, the true way to remove the tax altogether, is to *increase the duties* to the exclusion of foreign fabrics of the same kind, and thus excite, by entire confidence, a *general competition at home*. It has never yet failed to produce the effect in this country, and it has been tried in numerous articles of manufacture, which have uniformly fallen in price under a prohibitory duty on the foreign article. Such was the doctrine of Alexander Hamilton, and all experience has demonstrated its truth as to articles, the raw materials for which are the produce of the country.

I feel that I should apologise for this long explanation of the views of a private individual, having no pretensions to influence; nor desiring any, nor any other object in view but to promote the welfare of his country, by communicating the results of some experience and much thinking on a very interesting subject. I can only say that it is a subject which always excites me.

With much respect, your obedient servant,

JACOB T. WALDEN.

Gen. Dix, Albany.

## DOCUMENT 10.—No. 55.

*From the Oneida Manufacturing Society, 24th March, 1832.*

## QUESTIONS.

1. Is any change necessary in levying and collecting the duty on imported cottons, to prevent fraud?

2. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum?

3. What would be the operation of this change upon the frauds at present supposed to be practised?

4. Extent of individual and household manufacture in Oneida county, and how much it has increased since the tariff of 1824?

5. Do the persons employed at your manufactory board themselves, and what do they pay per week?

Answer to question 5. They board themselves; young women pay 8s. per week; men pay 12s. per week.

I am not sufficiently acquainted with the operation of the revenue laws to answer the first questions.

## DOCUMENT 10.—No. 56.

*ALBANY, April 19th, 1832.*

SIR: The enclosed paper has just been received. It is the result of a deliberate examination of the subject, by several highly intelligent gentlemen in the city of New York, neither manufacturers nor merchants, who were called on by General Dix for their written opinions.

I have to acknowledge your letter of 16th inst., and to say that I had anticipated your wishes, by discontinuing my inquiries and the employment of agents.

I am, very respectfully, your obedient servant,

ALVIN BRONSON.

Hon. L. McLANE, *Secretary of the Treasury, Washington.*

## DOCUMENT 10.—No. 57.

*Questions and Answers on Minimums, Frauds, &c., on Imported Woollens.**NEW YORK, 18th April, 1832.*

Question. Is any change necessary in levying and collecting the duty on imported woollens, to prevent fraud?

Answer. The value of goods at the place of purchase or exportation, by competent appraisers here, who shall have power of fixing the price, per running yard, on the best piece in the package, as the value of the whole; fixing the number of pieces to constitute a package, on which ad valorem duties shall be estimated, instead of the minimum, would not only equalize the duties among importers, but would *effectually guard* against fraud by false valuation. The appraisers having power to call for invoices, and to examine importers and consignees, and, if necessary, under oath, to gain the best possible information.

Question. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum?

Answer. If minimums are abolished, it would be difficult, if not impracticable, to decide what ad valorem duty would be equivalent to the present minimum duty per square yard, especially if the valuation is to be made at the port of entry; the amount of duty might vary in a week, on the same article, twenty-five per cent., owing to the fluctuation of the prices at the public sales. To fix the value of the goods at the port of entry, on which to calculate the duties, would be attended with such embarrassments that the officers of the customs would find their duties impracticable. The auction system so far prevails in the United States that, in a great measure, it governs the market price at the day of the sale, but the fluctuations are daily from five to twenty, and often in the course of six months, from fifty to sixty per cent.; the present time is an example of the truth of the remark. The variation of the market at different ports of entry may be from twenty to fifty per cent., so that

a merchant in Charleston may pay at the same time, on the same article, twenty five per cent. more duty than a merchant in New York. Besides, who is to decide the value of the goods at the port of entry? Surely not men confined to custom-houses and public stores, but active merchants, and their opinions would be about as various as their numbers. If any appeal was allowed from the valuation of the appraisers, (as doubtless there would be) it would become endless, and half the merchants in the ports would be in requisition to fix the market value of the goods imported, and the port of New York would require an hundred stores to accommodate them. A merchant might to day enter a package of cloths appraised at \$4 per yard—say he is to pay 45 per cent. ad val.; but next week, when his goods are ready for sale, the auctions have reduced the market in the mean time on the same kind of goods to \$3 per square yard, so that he would, in fact, pay about sixty per cent. instead of forty-five per cent. ad valorem duty. No merchant could calculate within ten to twenty per cent. what amount of duties he would have to pay on his importations. In fact, all estimates of duties would be wholly contingent and dependant on circumstances over which there could be no control, and neither the merchant or Government could form any just estimates. Difficulties might be suggested, almost without number, against the plan of estimating the market value at the port of entry on which to calculate the duties. The fluctuations in the United States are more often to the extent of twenty-five per cent., owing to the auction system, than they are in foreign markets, of five per cent. in the same time.

Question. What would be the operation of this change upon the frauds at present supposed to be practised?

Answer. This question has, in a great measure, been anticipated. The appraisers fixing the cost of the goods in the foreign market on which the duties are to be estimated, would be an effectual guard against false invoices, false valuation, and false swearing. To effect this object, an agent ought to be established to give the state of the foreign market from time to time, as changes take place; but if the valuation was fixed at the port of entry in the United States, the law could not be carried into operation, for the reasons stated in answer to the second interrogation.

# MANUFACTURES.

## RETURNS FROM THE STATE OF NEW JERSEY.

### DOCUMENT 11.—No. 1.

NEW PROSPECT, *April 28th*, 1832.

SIR: Immediately on receipt of your instructions, I repaired to Paterson, where the greatest number of cotton factories in the State are located, and, as soon as possible, had a number of circulars printed, which I delivered to the principal manufacturers, who promised to immediately attend to answering the several queries. I also went to all the calico printing establishments in our State, most of the woollen and also the iron works, sending circulars by mail to those factories more distant; and, although I have made use of every reason, urgent and persuasive, I have not been able to obtain from the principal manufacturers explicit and full answers until this late period, many from want of information—some from apprehension of exposing the secrets of their business, others from unpardonable dilatory negligence. It is matter of extreme regret that, on questions of so great importance, such supineness and manifest want of frankness should exist, as you will perceive by the originals, which I herewith forward. Finding it wholly impossible to obtain from the owners or agents the desired information, I called on the committee appointed to collect information for the Tariff Convention, and have, from necessity, filled up the tabular statement from their calculations, to give as full and satisfactory a statement as it is possible to procure. I have the greatest confidence in the correctness of the statements of these gentlemen, as it was obtained with great care and labor; and, from a personal knowledge, I have the greatest reliance on their judgment and honesty of intentions.

The business of cotton spinning for the last two years has been profitable, and the increase of new establishments has progressed in proportion to the apparent advances of lucrative investment; but, within the last three months, a depreciation has taken place in the price of yarns and cotton goods fully equal to 25 per cent. This has arisen partly from home competition, but more from the introduction of European productions. The prices of the domestic article at present in the market are below what they ever before sold for, and considerably below the prices of Manchester or Glasgow. Had the advance of manufactures continued for a few years in a ratio proportionate to the two last, there can remain no doubt that the article would have been furnished to the consumer at the lowest possible value.

It was gratifying to observe the increase of establishments, and the rapid advance in new inventions, and improvements in the perfectability of the new machinery for the saving of labor, when the home competition would soon have supplied the wants of the country at the lowest price possible: for it may be considered as an axiom in political economy, that, whenever any article manufactured in the country arrives at the maximum of supply, the article descends to the minimum value that human labor can produce it at. Such has been the result with a number of manufacturers, such as cut nails, coarse cottons, and a number of others. It would, therefore, be the true policy of Government to give such encouragement and direction to the industry of the nation as to call into operation the dormant resources of its vegetable, fossil, and mineral productions so as to render it independent of the world for the first necessities of existence, food, clothing, and defence.

Commerce, as it has ever existed in this country, owing to the changes and vacillating policy of European Governments, has rendered the mercantile pursuit a game of hazard, and has had a deteriorating effect upon the morals of community, injurious to the independence and interests of society. The commerce between the States in those exchanges of the labors of each, becoming more and more permanent and universal, by each supplying the other's wants, will give a permanency to the Government and our institutions beyond the reach of European influence.

The progress of the manufacture of cotton since the tariff of 1816, presents a number of remarkable facts worthy of observation.

1st. As it respects the reduction of prices, with the causes.—When the manufacturers became confident of the protection of Government, they embarked with confidence in the re-establishing the manufactories that had become unprofitable. After peace, the inventive genius of the country was called into operation to perfect and improve the machinery, to reduce the cost of manufactures; and their success has been productive of the most fortunate results. The increased improvements can be best explained by comparing the difference of prices: 1st. The spindles that, in 1815, turned off  $1\frac{1}{2}$  or 2 hanks per day, in 1824 was capable of producing from 4 to 6 hanks of the same number of yarn, and the present improved spindle is spinning  $8\frac{1}{2}$  hanks of the same number. The price was reduced in an equal ratio; as proof, No. 20 then, 1815, sold at one dollar per pound, and in 1829 at 20 cents. The improvement of warping, sizing, and in weaving, has kept pace with spinning, as the yard of muslin then sold at 35 cents and  $37\frac{1}{2}$  cents, and, in 1829, sold for 5 and 6 cents. Such are the effects arising from the paternal fostering protection of Government, and not from frigid, unproductive necessity. Necessity is not, therefore, the mother of invention; it is for Government to call forth the latent energy of the inventive genius of a people, by a judicious guarantee to ingenuity and industrious enterprise.

The advancement in the woollen manufacture has been equal to the cotton. New invented machinery in spinning and weaving has reduced prices proportionate to the cotton; but should an injudicious modification of the tariff check the aspiring exertions, so rapidly advancing to perfection, there is no calculating the disastrous results. Machinery is yet in its incipient stages, but, infantile as they are, have advanced beyond the present state in Great Britain. A gentleman who has just returned from a year's residence in England informs me he was astonished at the backward state of machinery in that country. Upon inquiry, the spindle, in the largest factories, did not average more than two hanks per day. It is these improvements, protected as they have been, that enables our manufacturers to contend with the low price of labor and large capital of Britain; and, comparing the price current of Manchester and Glasgow with Philadelphia and New York, the prices of the latter are from 4 to 6 cents below the former. But should the modification of the tariff compel those who have at present embarked the whole of their capital and credits, to give up the business, it will require a long period to restore the losses sustained, and inspire confidence in others to again embark in so unfortunate and unpropitious an adventure.

You will observe, that, in the schedule as returned, many mills are returned with nothing but the capital invested. I called on the owners, who gave me the return as rendered, which includes site, building, and machinery contracted for.

All which is respectfully submitted.

I am, respectfully, your obedient servant,

CHAS. KINSEY.

To the Hon. Louis McLANE,

*Secretary of the Treasury of the United States.*

### DOCUMENT 11.—No. 9.

*Cotton Mill, New Prospect, Bergen County, New Jersey, March 6, 1832.*

| QUESTIONS.                                                                                       | ANSWERS.                                                                     |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                        | 1. New Jersey, Bergen county.                                                |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?             | 2. One cotton mill, spinning, drove by water power.                          |
| 3. When established; and whether a joint stock concern?                                          | 3. Established in 1831. Individual concern.                                  |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                  | 4. Capital in ground, buildings, power, \$6,000; machinery, \$10,000.        |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages. | 5. Materials and cash paid for materials, \$11,000; wages \$4,000 per annum. |



| QUESTIONS.                                                                                                                                                                                                                                                                                                       | ANSWERS.                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>6. Annual rate of profit on the capital invested, since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of the profit upon that portion which is not borrowed?</p> | <p>6. Have not been in operation more than twelve months.</p>                                                                                                                                                                                                                                                         |
| <p>7. Cause of the increase (or decrease, as the case may be) of profit?</p>                                                                                                                                                                                                                                     | <p>7. Fluctuations in the public mind; scarcity of money; excess of competition; forced sales at auction; heavy importations have the effect of destroying regular sales, and increasing the stock of the manufacturer, obliging to sell at reduced prices and at an extended credit; want of confidence, &amp;c.</p> |
| <p>8. Rates of profit on capital otherwise employed in the same State and county?</p>                                                                                                                                                                                                                            | <p>8. Variable, at from 3 to 12 per cent.</p>                                                                                                                                                                                                                                                                         |
| <p>9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?</p>                                                                                                                                                                     | <p>9. At the rate of 60,000 lbs. yarn per annum, from 26 to 35 cents; sold to weavers, by whom the yarn is made into goods, at an advance of from <math>\frac{1}{4}</math> to <math>\frac{1}{2}</math>.</p>                                                                                                           |
| <p>10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?</p>                                                                                                                                                                           | <p>10. Cotton to make 60,000 lbs. yarn, adding the waste, from 10 to 12 per cent., at from 11 to 12<math>\frac{1}{2}</math> cents.</p>                                                                                                                                                                                |
| <p>11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?</p>                                                                                                                                                                                           | <p>11. We know of no yarn to any amount imported, but the importation of goods oblige the weavers to curtail their business, and limit the sale of yarn.</p>                                                                                                                                                          |
| <p>12. Number of men, women, and children employed, and average wages of each class?</p>                                                                                                                                                                                                                         | <p>12. Two men, at \$5 weekly; 9 girls at \$3; and 19 girls and boys at \$2; together with our own attention personally.</p>                                                                                                                                                                                          |
| <p>13. How many hours a day employed, and what portion of the year?</p>                                                                                                                                                                                                                                          | <p>13. Twenty-two hours; two set of hands relieve each other alternately.</p>                                                                                                                                                                                                                                         |
| <p>14. Rate of wages of similar classes otherwise employed, in the same State and county, in other States, and in foreign countries?</p>                                                                                                                                                                         | <p>14. Various: wages is governed by the same principles as business, in general: if laborers are in demand, wages rise; if employment is wanted, labor will fall in proportion: price of provisions also have an effect on the price of labor, in some countries—the comfort of the people are abridged.</p>         |
| <p>15. Number of horses or other animals employed?</p>                                                                                                                                                                                                                                                           | <p>15. Two horses.</p>                                                                                                                                                                                                                                                                                                |
| <p>16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?</p>                                                                                                                                                                                                 | <p>16. Sold in New York, 22 miles, and at Philadelphia.</p>                                                                                                                                                                                                                                                           |
| <p>17. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?</p>                                                                                                                                                                                 | <p>17. To a great extent, at auction.</p>                                                                                                                                                                                                                                                                             |
| <p>18. Where are the manufactures consumed?</p>                                                                                                                                                                                                                                                                  | <p>18. United States, principally.</p>                                                                                                                                                                                                                                                                                |
| <p>19. Whether any of the manufactures are exported to foreign countries? and, if so, where?</p>                                                                                                                                                                                                                 | <p>19. Sold by commission, at 4 to 8 months credit; 5 per cent commission and guarantee.</p>                                                                                                                                                                                                                          |
| <p>21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?</p>                                               | <p>21. Price of labor variable; materials also vary like all other goods or produce, occasioned by supply and demand.</p>                                                                                                                                                                                             |

## QUESTIONS.

22. The prices at which the manufactures have been sold by the manufacturer since the establishment?

23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?

26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?

27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?

29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?

30. If it would cause you to abandon your business, in what way would you employ your capital?

31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?

33. Amount of capital, and what proportion the borrowed capital bears to that which is real?

34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent. and how gradual the reduction should be?

36. What would be the operation of this change upon the frauds at present supposed to be practised?

38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?

39. Average profit of money or capital in the United States?

## ANSWERS.

22. In 1831 yarns brought 10 cents above the No. 1; at present it is selling at 6 cents; it brought, in 1819, 26 cents above the No. 1; the cause is the improvement of machinery and competition.

23. Present tariff duties.

26. See 5th and 12th queries.

27. Leather for belts, coal 12 tons, wood, sheep skins, calf skins, oil 900 gallons, glue, cloth, brooms, brushes, bobbins, twine, paper.

29. Abandon it certainly, as a shipwrecked mariner would abandon a raft, although he should be made a prisoner.

30. In no other way than having none left. If we have to abandon it, who would purchase? We have been long engaged in the business. Our occupation would be gone.

31. Our property would be the most unprofitable stock in the United States. we could not sell it.

33. The capital invested in machinery is fixed; it cannot be changed or converted to any other purpose than it was constructed for; if not in operation it is useless.

34. The present rate of tariff duties have encouraged the manufacturers to extend their business in other channels, particularly to printing calicoes, which has increased the demand for goods for printing; should these establishments cease, competition would be excessive in other goods.

36. Frauds are more supposed than real; but we are certain that goods are manufactured on purpose for this market of very inferior stock, which is fraud on the consumer.

38. Cotton goods have, in a great measure, superseded linen, which whilom was the principal household manufacture in this part of the country. The market afforded the farmer and mechanic for their produce or industry, enable them to purchase goods for less per yard than it formerly cost to have the flax spun; besides, such as used to go out to spin, &c., have employment at the factories.

39. Six per cent. lawful interest in New Jersey, eight per cent. in Georgia.

## DOCUMENT 11.—No. 2—Continued.

| QUESTIONS.                 | ANSWERS.            |
|----------------------------|---------------------|
| 40. Average rate of wages? | 40. See query 12th. |

In addition to query 38, we would add that the establishment of manufactories of different descriptions in this country, has enabled the farmer to sell his produce to the mechanic, and those engaged in the factories. This portion of the population being drawn off from agriculture, are consumers instead of producers; a market is therefore created for provisions, and enables all classes to purchase goods which they were obliged formerly to make themselves, at a great disadvantage. This has had the effect to increase the consumption of manufactured goods, cotton particularly, inasmuch as cotton shirtings or sheetings can be purchased for 6 cents to 12 cents per yard, and the means to purchase are in his power, by the market created for his produce or the proceeds of his business or trade; employment is thus given people of different trades and occupations. Household manufactures of wool, linen, and linsey-woolsey, have been diminished and given up, in a great measure. Flax is rarely seen, whereas fifteen or twenty years ago it was cultivated in great quantities. Within the same space of time cotton goods have declined in price at least one-half. This is no doubt owing to the increase of the supply of cotton, and consequent decline of price, although in a far less proportion than the decline of the price of goods. The improvement in machinery, both in this country and Europe, together with experience and skill, has enabled manufacturers to furnish goods at one-half what they could be made for fifteen or twenty years since.

As respects the rates of wages, we know that the wages given in some foreign countries is barely sufficient to enable the operatives to live, and should be sorry to see the same thing in this country. Some establishments here pay higher wages than others; that is, to a hard say of the same size and age; but select hands, such as are enabled to tend more machinery, will command an advance in proportion to their dexterity. Some would be cheaper at \$1 per week than others at \$1. In large establishments there is a large number of the latter.

PETER PRALL & BROTHERS.

## DOCUMENT 11.—No. 3.

*Munn & Whithead's Statement of Cotton Manufactory, Godwinville, Bergen County, New Jersey, March 6, 1832.*

| QUESTIONS.                                                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                                | 1. New Jersey, Bergen county.                                                                                            |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                     | 2. Cotton manufactory and sizing establishment; water power.                                                             |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                                  | 3. Established 1826; joint stock company.                                                                                |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                          | 4. Capital of buildings and water power \$16,160; cotton machinery, \$37,000; sizing establishment, \$1,000.             |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                                                         | 5. Cotton, oil, leather, &c., \$45,550; wages, \$10,100; flour, wood, &c., \$2,080; wages in sizing department, \$1,100. |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of the profit upon that portion which is not borrowed? | 6. After having provided for the interest of capital invested, leaves three per cent profit yearly.                      |

## QUESTIONS.

9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?

10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?

12. Number of men, women and children employed, and average wages of each class?

13. How many hours a day employed; and what portion of the year?

15. Number of horses or other animals employed?

16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?

18. Where are the manufactures consumed?

19. Whether any of the manufactures are exported to foreign countries? and if so, where?

20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?

21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?

22. The prices at which the manufactures have been sold by the manufacturer since the establishment?

23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?

27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?

29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?

30. If it would cause you to abandon your business, in what way would you employ your capital?

33. Amount of capital, and what proportion the borrowed capital bears to that which is real?

## ANSWERS.

9. 250,000 lbs. yarns, from No. 8 to 18, amounting on an average to \$54,300; 17,500 lbs. filling fustian, at 14 to 16 cts., amounting to \$2,625; 19,200 yards fustian, averaging 19 cents, amounting to \$3,648.

10. 275,000 lbs. cotton, at from 13½ cts. to 9 cts., average amount \$27,500; 36,134 lbs. waste, from 6 cts. to 4 cts., amounting average \$1,800; 3,000 warps, amounting to \$700; fustian filling, 9,600 lbs., at 14 to 16 cents, amounting, average, \$1,440.

12. 15 men, at \$6 per week; 9 women, at 20s. do.; 76 children at 9s. 6d. per do.

13. About 12 hours; perhaps 50 weeks annually.

15. 5 horses.

16. 22 miles from New York, 118 miles from Philadelphia. The greater proportion of merchandise is sent to the latter place.

18. United States.

19. Mexico and South America has afforded a market for some particular kinds of goods; likewise, the East Indies some few descriptions.

20. Sold at 6 and 8 months' credit; commission, guarantee, interest, &c., being expense of sales, amounting to \$7,200 annually.

21. The raw material has advanced regularly for the last two years, 9 to 10 per cent. annually; labor from 5 to 10 per cent.

22. See No. 9.

23. See profits of business, as above stated.

27. 25 tons coal, 250 cords wood, 200 bls. wheat; lamp oil, 750 gals.; cloth, woollen, \$150; belt leather, roller and lace do. \$200 annually.

29. Must shut up shop.

30. We should have none to invest, as capital invested in machinery would be of no value, as the property in that case would not be convertible.

33. See query No. 4, and No. 6.

## DOCUMENT 11.—No. 3.—Continued.

| QUESTIONS.                                                                                                                                                               | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent. and how gradual the reduction should be? | 34. No reduction could be made without being prejudicial to the manufacturer, as we have, with present tariff duties, realized, after paying interest on investments, a net profit of but 3 per cent.; and even from that small contingent fund, we have to make heavy drafts in order to replace machinery which will become useless from wear and tear in a few years. |

MUNN &amp; WHITEHEAD.

## DOCUMENT 11.—No. 4.

*James Rennie's Statement of Calico Printing, Bergen County, New Jersey, March 6, 1832.*

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                               | 1. New Jersey, Bergen county.                                                           |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                    | 2. Bleaching and Calico printing; water power.                                          |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                 | 3. In 1831; individual.                                                                 |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                         | 4. \$15,000.                                                                            |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                                        | 12. 25 men, averaging \$7 per week; and 20 children, averaging \$1 25.                  |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                        | 13. 10 hours the year round.                                                            |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                         | 15. Two horses.                                                                         |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                               | 16. 12 miles from market.                                                               |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                | 18. United States.                                                                      |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. An abandonment of the business would be preferable to continuing at reduced prices. |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. In that event, no capital could be realized to employ in any way.                   |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                                                                             | 37. From one-half to two-thirds, (supposed.)                                            |

LOOM PRINT WORKS, 26th March, 1832.

SIR: Annexed you have the only answers that I deem within my power to give: the very recent establishment of the business precludes me from answering more.

I am, most respectfully,

Your obedient servant,

JAMES RENNIE.

## DOCUMENT 11.—No. 5.

*John Travers' Statement of a Manufacture of Canvas, in Paterson, Essex Co., New Jersey.*

| QUESTIONS.                                                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                                | 1. Paterson, county of Essex, State of New Jersey.                                                                                                                                                   |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                                                                                                                                                                                     | 2. For the manufacture of hemp and flax; mill driven by water.                                                                                                                                       |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                                  | 3. Previously to 1824, owned by individuals; that year it was incorporated, and is now a joint stock company.                                                                                        |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                          | 4. \$170,000 is the cost of the mill and machinery.                                                                                                                                                  |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                                                         | 5. 600,000 lbs. of flax is the quantity consumed; and it costs, delivered, about 10½ cts. per lb. The wages amount to 54,000 dollars per annum.                                                      |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of the profit upon that portion which is not borrowed? | 6. We have never divided a cent since we started. The stock is at 33½ per cent.                                                                                                                      |
| 7. Cause of the increase, or decrease, as the case may be, of profit?                                                                                                                                                                                                                                    | 7. The mill has been stopped the last six months on account of importations of flax being stopped from the high duty, and the impossibility, from short crops, of getting native.                    |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                           | 8. Not having done more than paid our debts, we are stopped altogether, owing to the high duty on the raw material, which benefits no one. American flax cannot be used for the same use as foreign. |
| 9. Amount of articles annually manufactured since the establishment of the manufactory; description, quality, and value of each kind?                                                                                                                                                                    | 9. I have made since 1821, about 50,000 bolts of canvas, and about 20,000 bolts of cotton bagging.                                                                                                   |
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                                                                                                                                                                          | 10. The quantity of raw material as above, of which as much is native as we can procure, having a standing advertisement in five or six papers.                                                      |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                          | 11. Foreign duck, Russia, \$19½ per bolt; Holland, \$25 per bolt.                                                                                                                                    |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                        | 12. When in operation, 138 men, at 65 cts. per day; 42 boys, at \$1 37½ per week; 61 women, at \$2 37½ per week; 53 girls, at \$1 37½ per week—about 29½ in all.                                     |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                         | 13. All the year round, average 12 hours; in winter less, in summer more.                                                                                                                            |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                         | 14. The difference in wages, in manufacturing flax here and in England, is nearly 40 per cent. The men at other work here can earn 6s. and 7s. per day. The girls and boys have no other employment. |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                          | 15. Only one horse; the teaming is done by contract.                                                                                                                                                 |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                | 16. Sent to New York, (navy yard principally.) The cotton bagging goes to Augusta, Georgia.                                                                                                          |

## QUESTIONS.

17. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?

18. Where are the manufactures consumed?

19. Whether any of the manufactures are exported to foreign countries, and if so, where?

20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?

21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?

22. The prices at which the manufactures have been sold by the manufacturer since the establishment?

23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?

24. Is any change necessary in levying or collecting the duty on such articles, to prevent fraud?

25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and, therefore, not divided out annually?

26. What portion of the cost of your manufactures consist of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?

27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?

28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?

## ANSWERS.

17. Foreign duck and cotton bagging would not have competed with us, if the duty on foreign flax could have been procured.

18. On the national and merchant shipping; principally by the former.

19. Sometimes a small quantity to South America, and round Cape Horn.

20. Sold on a credit of 4 and 6 months.

21. The increase of cost of the raw material has been gradually advancing the cost of the manufactured article. We have tried to compensate for the duty by inventing and adopting economical machinery.

22. We commenced selling at \$2 50, and we reduced it to \$13 50 per bolt for canvass; cotton bagging, 19 cents per yard, weighing 1 1/2 lbs. to the yard.

23. The present duty on the manufactured article of duck and cotton bagging is sufficient protection. Take the duty off of flax, and protect all kinds of thread and twine, and coarse goods generally, say 30 per cent. ad valorem.

24. Duck, viz. light duck, is introduced as sheetings. All this has been explained to the Treasury Department; and, again, our ships get their supplies not unfrequently abroad. If the duty were laid on canvass, "whether in use or not," it would prevent this. The making of the sails is lost, as also the manufacture thereof.

25. We have not made any dividend, and are, we believe, the only flax factory now in operation. Within three years there has been a general breaking up. We make canvass for the navy, and they find it their interest to sustain us.

26. A bolt of No. 1 duck contains in the proportion of \$10 of raw material to \$6 of labor, supposing it to cost \$16, or as \$5 to \$3.

27. I cannot tell; never made any estimate.

28. They have all failed or stopped for want of raw material. I can make 10 m. bolts of duck, and 2 m. cotton bagging, equal to bolts, 12,000.

## DOCUMENT 11.—No. 5—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                      | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>29. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?</p> | <p>29. Not having any hope of permanency in any other article of manufacture than cotton, we have agreed to sink 57,000 dollars, and put in cotton machinery in the mill: just keeping a sufficient flax machinery for the use of the navy; and if they do not think it worth while to encourage that, we will abandon it altogether. If the duty be taken off the flax, we can get along very well. We want no additional duties on bagging or canvass. The great interests of the country are not looked at. Every man legislates in Congress for the particular district he represents, and all the information which is procured on that subject, is of no avail.</p> |
| <p>31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?</p>                                                                                                            | <p>31. This is answered above. I could engage in any, and every thing, provided its success would depend on my own exertions, and not on laws of Congress.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## DOCUMENT 11.—No. 6.

*John W. Berry's Statement of Cotton Manufactory, situate in the town of Paterson, in the County of Essex, in the State of New Jersey.*

| QUESTIONS.                                                                                                                                                                                                                                                                                                      | ANSWERS.                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. State and county in which the manufactory is situated?</p>                                                                                                                                                                                                                                                | <p>1. New Jersey, Essex county.</p>                                                                                                                                                |
| <p>2. Kind or description of manufactory; and whether water, steam, or other power?</p>                                                                                                                                                                                                                         | <p>2. Cotton. Water power.</p>                                                                                                                                                     |
| <p>3. When established, and whether a joint stock concern?</p>                                                                                                                                                                                                                                                  | <p>3. 1814. Private concern.</p>                                                                                                                                                   |
| <p>4. Capital invested in ground and buildings, and water power, and in machinery?</p>                                                                                                                                                                                                                          | <p>4. Eighty thousand dollars.</p>                                                                                                                                                 |
| <p>5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?</p>                                                                                                                                                                                                         | <p>5. Wages, annually, \$15,000; materials, and cash paid for materials, \$20,000.</p>                                                                                             |
| <p>6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of the profit upon that portion which is not borrowed?</p> | <p>6. Annual rate of profit five per cent.</p>                                                                                                                                     |
| <p>7. Cause of the increase, (or decrease, as the case may be,) of profit?</p>                                                                                                                                                                                                                                  | <p>7. Fluctuation in the public mind, from want of confidence in unanimity of the Government to protect our infant manufactures; scarcity of money, and excess of competition.</p> |
| <p>8. Rates of profit on capital otherwise employed in the same State and county?</p>                                                                                                                                                                                                                           | <p>8. Variable, from three to eight per cent.</p>                                                                                                                                  |



| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                   | 9. Yarn, 100,000 pounds, from 17 to 50 cents; cotton 116,000 pounds, from 32 to 10 cents.                                                                                                                                                                                  |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                       | 12. Twelve men at \$7, weekly; 100 boys and girls at \$2, weekly.                                                                                                                                                                                                          |
| 13. How many hours a day employed? and what portion of the year?                                                                                                                                                                                                        | 13. Average 11½ hours per day; average 50 weeks to the year.                                                                                                                                                                                                               |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                         | 15. Three horses.                                                                                                                                                                                                                                                          |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                               | 16. New York and Philadelphia; 16 and 100 miles.                                                                                                                                                                                                                           |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale; and to what extent?                                                                                                                                               | 17. To a large extent at auction.                                                                                                                                                                                                                                          |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                | 18. United States, and exported to South America.                                                                                                                                                                                                                          |
| 20. Whether the manufacture is sold by the manufacturer for cash? and, if on credit, at what credit? if bartered, for what?                                                                                                                                             | 20. Sold by commission at 6 to 8 months' credit; 5 to 7½ per cent. commission and guarantee.                                                                                                                                                                               |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?             | 21. The fluctuations of the market have been against the manufacturer in the materials; price of labor variable, from 5 to 10 per cent.                                                                                                                                    |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                    | 22. Yarn from 50 to 17 cents per pound.                                                                                                                                                                                                                                    |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition, in the home market, with similar articles imported?                                                                                                                            | 23. Present tariff duties.                                                                                                                                                                                                                                                 |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                        | 27. Mostly domestic.                                                                                                                                                                                                                                                       |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Most certainly abandon it, or be ruined.                                                                                                                                                                                                                               |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. If I were to abandon it, where would I find a purchaser?                                                                                                                                                                                                               |
| 35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of duty would be equivalent to the present with the minimum?                                                                   | 35. Present rate of duties, which has for its object the encouragement of our manufactures, should continue, all others should be abandoned. The most of the manufacturer's capital is perishable, as machinery, &c.; he would require 12 per cent. as equal remuneration. |
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                                                                                                     | 36. Frauds are more supposed than real.                                                                                                                                                                                                                                    |

## DOCUMENT 11.—No. 7.

*Bleaching and Printing Establishment, situate in Acquanonk, in the County of Essex, in the State of New Jersey.*

| QUESTIONS.                                                                                                                | ANSWERS.                                                             |
|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                 | 1. State of New Jersey, county of Essex.                             |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                      | 2. Bleaching and printing. Water power.                              |
| 3. When established, and whether a joint stock concern?                                                                   | 3. Established in 1828. Not a joint stock.                           |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                           | 4. In ground and buildings \$9,000; machinery.                       |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                          | 5. Twenty-five hundred dollars.                                      |
| 12. Number of men, women, and children employed, and average wages of each class?                                         | 12. 20 men, at \$7 per week; 14 women and children, at \$3 per week. |
| 13. How many hours a day employed, and what portion of the year?                                                          | 13. Ten hours per day.                                               |
| 15. Number of horses or other animals employed?                                                                           | 15. Three horses.                                                    |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                 | 16. Sent ten miles.                                                  |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale; and to what extent? | 17. To a great extent.                                               |

## DOCUMENT 11.—No. 8.

*Calico Printing Manufactory, situate in the town of Rahway, in the County of Essex, in the State of New Jersey.*

| QUESTIONS.                                                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                               | 1. In New Jersey, county of Essex.                                                                        |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                    | 2. Calico printing; water power.                                                                          |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                                 | 3. Established 1827; private concern.                                                                     |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                         | 4. Fifty thousand dollars.                                                                                |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                                                        | 5. Five thousand five hundred dollars per week.                                                           |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed after providing for the interest upon it; and the rate of the profit upon that portion which is not borrowed? | 6. From 1828 to 1831 the gain was about 8 per cent.; and since, it has been from 20 to 25 per cent. loss. |

| QUESTIONS.                                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                  | 7. Decrease on account of foreign goods coming in and sold at auction at a sacrifice, which compels us to sacrifice also.                                                                                                                                     |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                  | 9. One hundred thousand pieces per year, and averaging from three to four dollars per piece.                                                                                                                                                                  |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                      | 12. Wages paid about \$3,000 per month.                                                                                                                                                                                                                       |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                       | 13. Working hours 10 per day, and all the year if weather permitting.                                                                                                                                                                                         |
| 14. Rate of wages of similar classes otherwise employed, in the same State and county, in other States, and in foreign countries?                                                                                                                                      | 14. They vary but trifling, except in foreign countries, and they get but about half as much.                                                                                                                                                                 |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                        | 15. Four horses and yoke of oxen.                                                                                                                                                                                                                             |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to market?                                                                                                                                                                | 16. To New York, Boston, Philadelphia, and Baltimore.                                                                                                                                                                                                         |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?                                                                                                                                              | 17. They do enter into competition, and the reason I assign is, because they are all sold at auction, and the market is glutted very soon by them.                                                                                                            |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                               | 18. Principally in the United States.                                                                                                                                                                                                                         |
| 19. Whether any of the manufactures are exported to foreign countries, and, if so, where?                                                                                                                                                                              | 19. I believe to South America some are sent.                                                                                                                                                                                                                 |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                             | 20. They are chiefly sold through commission houses, and on eight months' credit.                                                                                                                                                                             |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market, with similar articles imported?                                                                                                                            | 23. I should consider 40 per cent.                                                                                                                                                                                                                            |
| 24. Is any change necessary in levying or collecting the duty on such articles, to prevent fraud?                                                                                                                                                                      | 24. It is highly necessary there should be a change, and, as far as possible, to prevent their entering goods at the custom-house for less than they cost. If the duty could be levied in cash instead of credit, it would benefit the American manufacturer. |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                       | 27. About \$1,500 is consumed monthly for agricultural, and \$500 for domestic productions.                                                                                                                                                                   |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                   | 28. About 8,000 pieces per week in this State.                                                                                                                                                                                                                |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent, with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. We should be compelled to abandon our business immediately.                                                                                                                                                                                               |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                         | 30. Our capital is chiefly invested in the establishment, and, if we had to abandon it, we should consider it all lost; but if any remained, we would go to another country, where we consider the Government would protect us.                               |

## DOCUMENT 11.—No. 8.—Continued.

| QUESTIONS.                                                                                                                                                                             | ANSWERS.                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent?                           | 31. We know of no other.                                                                                  |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.? <sup>†</sup> and how gradual the reduction should be? | 34. No reduction will do, as the profits vary; sometimes we make 15 per cent., again we lose 25 per cent. |
| 37. Proportion which the production, by the American manufacturers, bears to the consumption?                                                                                          | 37. We can manufacture sufficiently for the consumption of the United States if we are protected.         |

Very respectfully,

P. TRUSSLER.

## DOCUMENT 11.—No. 9.

*Statement of the Manufacture of Cotton, Hunterdon County, New Jersey.*

BLOOMSBURY, Warren County,

March 29, 1832.

Your circular of the 6th inst. came to hand a few days since, there having been an error in the direction of it. To some of the questions I annex replies; the rest I cannot reply to.

1. In Hunterdon county, New Jersey.
2. Cotton machinery, propelled by water power.
3. Established but a few months since, and a private concern.
4. Amount of capital \$15,000, or thereabouts.
5. Cotton costs about \$7,500 per annum, and wages \$3,500.
6. From the recent establishment of the concern am unable to state.
9. The article manufactured is principally cotton yarn.
10. About 75,000 lbs. cotton annually consumed.
12. Six men, averaging about \$7 per week; about 20 girls and boys (principally the former) whose wages average \$1 87½ per week.
13. About 70 hours per week.
16. Low numbers sell readily here, finer are sent to Philadelphia.
23. I do not think any further protection is required for any number of cotton yarn under 25; over that am unable to speak positively.
27. It would require about \$2,500 worth of agricultural productions per annum to keep all hands dependant upon this mill.
29. A reduction of the tariff to 12½ per centum would be total and positive ruin not only to myself, but to many of the hands connected with this concern.
34. No reduction should on any account be permitted, as it would be impossible to tell how soon, and what would be the next alteration.
37. The demand for yarns is a fair one, but both that and prices are rather on the decline, owing to the over-production.

Yours respectfully,

WM. H. MORRIS.

CHAS. KINSEY, Esq.

## DOCUMENT 11.—No. 10.

*Statement of the Manufacture of Cotton at Paterson, New Jersey.*

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. State and county in which the manufactory is situated?</p> <p>2. Kind or description of the manufactory, and whether water, steam, or other power?</p> <p>3. When established; and whether a joint stock concern?</p> <p>4. Capital invested in ground and buildings, and water power, and in machinery?</p> <p>12. Number of men, women, and children, employed, and average wages of each class?</p> <p>13. How many hours a day employed, and what portion of the year?</p> <p>15. Number of horses and other animals employed?</p> <p>16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?</p> <p>18. Where are the manufactures consumed?</p>                                                                                                                                                                                                                         | <p>1. Essex county, State of New Jersey.</p> <p>2. Cotton factory; water power.</p> <p>2. 1822; not a joint stock, but a private copartnership.</p> <p>4. One hundred and twenty-five thousand dollars.</p> <p>12. 209 men and boys at \$3 per week; 162 females at \$2 per week.</p> <p>13. Seventy hours per week.</p> <p>15. 2 horses.</p> <p>16. Sent to Philadelphia and New York.</p> <p>18. Principally in the United States, although considerable exports are made to Mexico and South America.</p>                                                                                              |
| <p>19. Whether any of the manufactures are exported to foreign countries; and if so, where?</p> <p>20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit; if bartered, for what?</p> <p>21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?</p> <p>23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?</p> <p>29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per centum, with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?</p> | <p>19. To Mexico and South America.</p> <p>20. Sold by the agents of the manufacturer at from 4 to 8 months' credit.</p> <p>21. It has steadily decreased, independently of the cost of material, in about the proportion of the prospect of permanency of the protection afforded.</p> <p>23. We think the present rates of duties, with the protection from frauds by means of the minimums, adequate; it is doubtful whether lower duties would be so.</p> <p>29. We should, very unwillingly, be under the necessity of abandoning our business.</p>                                                  |
| <p>30. If it would cause you to abandon your business, in what way would you employ your capital?</p> <p>31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per centum?</p> <p>34. What amount of reduction in the duties would enable the actual or real capital em-</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <p>30. Our capital being for the most part invested in machinery and buildings constructed purposely for our present business, we apprehend that we should have very little capital left to employ in case of the reduction of duties proposed above.</p> <p>31. There is hardly any pursuit which would not yield greater profits to those habitually engaged in them; how they would prove to persons whose course of thinking had long been turned intensely on a different pursuit we cannot tell.</p> <p>34. Any reduction which would subject us to the fluctuations in foreign markets, is ad-</p> |

DOCUMENT 11.—No. 10—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>played to yield an interest of six per cent; and how gradual the reduction should be?</p> <p>35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum?</p> <p>36. What would be the operation of this change upon the frauds at present supposed to be practised?</p> <p>37. Proportion which the production by the American manufacturers bears to the consumption?</p> | <p>dition to those incident to our own, would make our business a lottery in which we might gain occasionally; which, probably, would result in ruin, and would certainly throw the business entirely into the hands of large capitalists.</p> <p>35. No ad valorem duty would have the same effect as the system of minimum, which not only guards us in a great degree against frauds, but also, by fixing a constant value upon imported goods, removes, so far as the duty is concerned, the injurious effects of fluctuations in foreign markets.</p> <p>36: We think decidedly unfavorable, as it would open the door to fraudulent low valuations.</p> <p>37. We suppose at least nine-tenths of the descriptions of yarns and goods we make are manufactured in the United States.</p> |

We remain, sir,  
Your most obedient servants,  
COLLET & SMITH.

CHAS. KIRBY.

DOCUMENT 11.—No. 11.

*Daniel Holsman's Statement of Cotton Manufactory, Paterson, New Jersey, March 6, 1832.*

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. State and county in which the manufactory is situated?</p> <p>2. Kind or description of the manufactory; and whether water, steam, or other power?</p> <p>3. When established; and whether a joint stock concern?</p> <p>4. Capital invested in ground and buildings, and water power, and in machinery?</p> <p>5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?</p> <p>6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of the profit upon that portion which is not borrowed?</p> <p>8. Rates of profit on capital otherwise employed in the same State and county?</p> <p>9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?</p> | <p>1. New Jersey, Paterson, Essex county.</p> <p>2. Cotton spinning and weaving; two mills.</p> <p>3. Established in 1813; owned by the undersigned.</p> <p>4. One hundred and forty-two thousand dollars.</p> <p>5. About eighty thousand dollars.</p> <p>6. Since the establishment, has not yielded 5 per cent. profit annually.</p> <p>8. Legal interest of the State, 6 per cent.</p> <p>9. About 345,000 lbs. yarn, a portion of which is converted into sheetings, which sell for from 5 to 8 cents per yard.</p> |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                                                                                                                                                                                                            | 10. About 420,000 lbs. cotton.                                                                                                                                                              |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                                                            | 11. At this time the price of yarn is lower than in Manchester, and made from cotton of American growth, while similar numbers of yarn in England is spun from East India cotton.           |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                                                                                                           | 12. Two hundred and two.                                                                                                                                                                    |
| 13. How many hours a day employed? and what portion of the year?                                                                                                                                                                                                                                                                           | 13. Eleven and a half hours per day.                                                                                                                                                        |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. Four horses and two drivers.                                                                                                                                                            |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. New York and Philadelphia.                                                                                                                                                              |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale? and to what extent?                                                                                                                                                                                                                  | 17. All cotton goods imported enter into competition, as the cotton manufacturers are embarking into the manufacture of finer fabrics.                                                      |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. United States of America, chiefly; and to some extent exported to countries in the East Indies, from whence America formerly obtained supplies, and made from cotton of foreign growth. |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                                                                                                  | 19. Yarn, and goods manufactured therefrom, exported to South America, Canton, and elsewhere.                                                                                               |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Sold through the agency of commission merchants, on a credit of from 6 to 8 months.                                                                                                     |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                | 21. Gradually lessened, owing to improvements in machinery.                                                                                                                                 |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. A reduction of more than 50 per cent. since the first establishment.                                                                                                                    |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. The present duty.                                                                                                                                                                       |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Not 10 per cent.                                                                                                                                                                        |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. Cost of cotton about fifty thousand dollars.                                                                                                                                            |

## DOCUMENT 11.—No. 11—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. An abandonment of the business.                                                                  |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. Would have no capital in that event to employ, as the establishment would be useless to any one. |

PATERSON, 24th April, 1832.

D. HOLSMAN.

## DOCUMENT 11.—No. 12.

*Ridgeway & Dickey's Statement of Cotton Mill, Paterson, New Jersey.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Paterson, New Jersey.                                                                                                           |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. One mill for spinning cotton yarn, moved by water power.                                                                        |
| 3. When established; and whether a joint stock concern?                                                                               | 3. Established in 1828, and is a private concern.                                                                                  |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                       | 4. Cost of water power, buildings and machinery, is forty-four thousand five hundred dollars.                                      |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                      | 5. For raw materials, wages paid to mill hands, and incidental expenses, about twenty-six thousand five hundred dollars per annum. |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. About 135,000 lbs. of cotton yarn, from Nos. 14 to 24, market price at present from 20 to 30 cents.                             |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?       | 10. About 160,000 lbs. of upland cottons.                                                                                          |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                       | 11. Very little or none imported.                                                                                                  |
| 12. Number of men, women and children employed, and average wages of each class?                                                      | 12. Eight men, average \$7 per week; 60 girls and boys, at average wages of \$3 each, per week.                                    |
| 13. How many hours a day employed? and what portion of the year?                                                                      | 13. Eleven and a half hours per day, averaging 50 weeks to the year.                                                               |
| 15. Number of horses or other animals employed?                                                                                       | 15. Two horses for transportation.                                                                                                 |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 16. The yarn is sold in Philadelphia and New York to hand weavers.                                                                 |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale; and to what extent?             | 17. They do not; little or none imported.                                                                                          |



## DOCUMENT 11.—No. 12—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                               | 18. The yarns are used in the United States, but considerable quantities were exported last year to South America.                                                                                                                                                                                           |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                               | 19. Some yarns were exported last year to Mexico.                                                                                                                                                                                                                                                            |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                             | 20. Yarns are selling on a credit of from 4 to 6 months.                                                                                                                                                                                                                                                     |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?            | 21. The cost has not materially varied in our establishment.                                                                                                                                                                                                                                                 |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                   | 22. Within three years, the price of yarn has lowered fifteen cents on a pound. No. 25 hanks to the pound have been sold for 40 and 25 cents per pound.                                                                                                                                                      |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                             | 23. Of course whatever rate of duty would affect prices of goods, will have a corresponding effect on prices of yarns.                                                                                                                                                                                       |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                       | 27. Partly answered by No. 10.                                                                                                                                                                                                                                                                               |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent, with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. If the duties were thus reduced, cotton yarn could not be spun in the United States, unless the wages of the hands were reduced to the same rate as at present in England, including the wages of all persons employed in making machinery, and in all the various branches connected with manufactures. |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                         | 30. If obliged to suspend operations, the whole capital would be a dead loss.                                                                                                                                                                                                                                |

PATERSON, 7th April, 1832.

RIDGWAY &amp; DICKEY.

## DOCUMENT 11.—No. 13.

*Statement of Cotton Manufactory in Paterson, Essex County, New Jersey.*

| QUESTIONS.                                                                           | ANSWERS.                                                                           |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Paterson, Essex county, New Jersey.                                             |
| 2. Kind or description of the manufactory, and whether water, steam, or other power? | 2. Cotton spinning, and weaving. Water power.                                      |
| 3. When established, and whether a joint stock concern?                              | 3. 1816; and the present proprietor came into possession 1826. Individual concern. |
| 4. Capital invested in ground and buildings, and water power, and in machinery?      | 4. Thirty-five thousand dollars.                                                   |

## QUESTIONS,

## ANSWERS.

5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?

9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?

10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?

11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?

12. Number of men, women, and children employed, and average wages of each class?

13. How many hours a day employed, and what portion of the year?

14. Rate of wages of similar classes otherwise employed, in the same State and county, in other States, and in foreign countries?

15. Number of horses or other animals employed?

16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?

18. Where are the manufactures consumed?

19. Whether any of the manufactures are exported to foreign countries? and if so, where?

20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?

21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased, and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?

22. The prices at which the manufactures have been sold by the manufacturers since the establishment?

23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?

25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and, therefore, not divided out annually?

5. Twenty-one thousand dollars.

9. 100,000 lbs. cotton yarn, Nos. 14 to 22. Average price of No. 14 has been 21 cts.; Do. No. 22, 25 cts.

10. About 120,000 lbs. fine Louisiana and, Alabama cotton per year, costing \$13,400, or thereabout.

11. Do not know.

12. Average wages, men \$8 per week; Do. of boys and females, \$2 per week. Employ 4 men, 14 boys, 19 girls.—N. B. 6 of those girls earn \$3 per week.

13. About 11½ hours per day for fifty weeks, is the most time that can be made in the year.

14. Do not know.

15. 2 horses constantly employed in teaming for the factory, with 1 man at 75 cents per day for driver.

16. Philadelphia and New York.

18. Principally in the United States; some to South America.

19. Very little at present; what is so, to South America.

20. On a credit of four months.

21. Has gradually lessened in consequence of improvements and perfection of machinery and knowledge gained, and more rigid economy practised.

22. During the preceding three years have received six cents per pound less for yarn than for the period of time before.

23. Such a rate of duty on yarn as would secure to us the difference between the cost of machinery and wages in spinning in England, and that of the United States, which is now from 40 to 47½ per cent.

25. The profit of the last year is not equivalent to the loss of the two preceding ones. Individual concern.

## DOCUMENT 11.—No. 13—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                            | 26. Partly answered by 5th and 10th.                                                                                                                                                                          |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                        | 27. Partly answered by No. 10.                                                                                                                                                                                |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                    | 28. Do not know.                                                                                                                                                                                              |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to 12½ per cent, with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. If thus so reduced, such quantities of foreign yarn would be thrown into the market, that I should be compelled to abandon the business.                                                                  |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. If thus compelled to abandon my business, I should not have any capital left for to embark in any other, as my all is invested in water power, buildings, and machinery, for the spinning of cotton only. |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                           | 31. Should not have any thing but my naked hands to make the experiment with.                                                                                                                                 |
| 33. Amount of capital, and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                            | 33. Partly answered by Nos. 4 and 5.                                                                                                                                                                          |

WARREN HAIGHT,  
Agent for the Proprietors of Harmony Factory.

## DOCUMENT 11.—No. 14.

*Statement of Cotton Manufactory in Paterson, Essex County, New Jersey.*

| QUESTIONS.                                                                                                                            | ANSWERS.                         |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. New Jersey, Essex county.     |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                  | 2. Cotton; water power.          |
| 3. When established, and whether a joint stock concern?                                                                               | 3. In 1831. No joint stock.      |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                       | 4. Thirty-one thousand dollars.  |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. In operation six months only. |

## DOCUMENT 11.—No. 14—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                               | ANSWERS.                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                                                                                                                                          | 10. 100,000 lbs. cotton, at 11 to 12 cents per pound.                            |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                        | 12. 3 men, 6 women, 28 children. \$300 per month.                                |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                         | 13. Average 11½ hours per day through the year.                                  |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                          | 15. Two horses.                                                                  |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                | 16. New York and Philadelphia.                                                   |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                 | 18. United States and South America.                                             |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                 | 19. South America.                                                               |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                               | 20. Six months' credit.                                                          |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased, and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?               | 21. Only in operation six months.                                                |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                     | 22. Yarns from No. 18 to 30, are now selling at 5 cents over the number, per lb. |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Abandon the business.                                                        |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                           | 30. We understand no other business.                                             |

BENSON &amp; GODWIN.

## DOCUMENT 11.—No. 15.

*Mill Gearing Establishment, situate in the town of Paterson, in the County of Essex, in the State of New Jersey.*

| QUESTIONS.                                                                       | ANSWERS.                      |
|----------------------------------------------------------------------------------|-------------------------------|
| 1. State and county in which the manufactory is situated?                        | 1. New Jersey, Essex county.  |
| 2. Kind or description of manufactory; and whether water, steam, or other power? | 2. Mill gearing. Water power. |
| 3. When established; and whether a joint stock concern?                          | 3. 1826.                      |

## DOCUMENT 11.—No. 15—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                  | ANSWERS.                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                             | 4. About \$8,000; and, in addition, building a mill and machine shop, worth about 14,000 dollars, which will require additional capital to carry it on. |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                             | 5. Thirty thousand dollars.                                                                                                                             |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                           | 12. Forty men, wages average \$1.50 a day.                                                                                                              |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                            | 13. Eleven hours throughout the year.                                                                                                                   |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                   | 16. Erected machinery for mills as far north as Connecticut, and south as far as Georgia.                                                               |
| 19. Whether any of the manufactures are exported to foreign countries; and, if so, where?                                                                                                                                                                   | 19. To Mexico.                                                                                                                                          |
| 20. Whether the manufacture is sold by the manufacturer for cash? and, if on credit, at what credit; if bartered, for what?                                                                                                                                 | 20. Credit.                                                                                                                                             |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. Increased both in value of labor and materials, since commencement, about 50 per cent.                                                              |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                | 26. Labor two-thirds.                                                                                                                                   |

PAUL &amp; BEGGS.

## DOCUMENT 11.—No. 16.

*Cotton Machinery, Paterson, Essex County, New Jersey.*

| QUESTIONS.                                                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                                | 1. New Jersey, county of Essex.                                                                               |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                                                                                                                                                                                     | 2. Machinery. Water power.                                                                                    |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                                  | 3. January, 1832. Not a joint stock concern.                                                                  |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                          | 4. About \$50,000, including machinery and tools now in use.                                                  |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                                                         | 5. About \$10,000.                                                                                            |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of the profit upon that portion which is not borrowed? | 6. The establishment is in its infancy, and therefore do not know annual rate of profit. No borrowed capital. |

| QUESTIONS.                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                  | 7. Excessive importations and auction system.                                                                |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                           | 8. Do not know.                                                                                              |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality and value of each kind?                                                                                                                                     | 9. Do not know; the establishment being in its infancy.                                                      |
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                                                                                                                                          | 10. Do not know; the establishment being in its infancy.                                                     |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                          | 11. Do not know.                                                                                             |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                        | 12. 120 men and boys; say 103 men at \$6 per week, and 17 boys at \$2 48 per week.                           |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                         | 13. Eleven hours the whole year.                                                                             |
| 14. Rate of wages of similar classes otherwise employed, in the same State and county, in other States, and in foreign countries?                                                                                                                                        | 14. Do not know.                                                                                             |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                          | 15. Four horses.                                                                                             |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                | 16. At home, and various sections of the United States.                                                      |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?                                                                                                                                                | 17. They do not, at the present time.                                                                        |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                 | 18. In the United States.                                                                                    |
| 19. Whether any of the manufactures are exported to foreign countries; and, if so, where?                                                                                                                                                                                | 19. Cotton machinery is exported to Mexico.                                                                  |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, for what credit? if bartered, for what?                                                                                                                                              | 20. Credit from four to twelve months, generally.                                                            |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?              | 21. Labor has increased in value, and the cost of the manufactured article in, perhaps, the same proportion. |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition, in the home market, with similar articles imported?                                                                                                                             | 23. Present tariff.                                                                                          |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Would cause us to abandon our business.                                                                  |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                           | 30. Capital would be sunk in buildings and water privileges of no value.                                     |

## DOCUMENT 11.—No. 17.

*Cotton Manufactory, &c. in Paterson, Essex County, New Jersey.*

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                              | 1. State of New Jersey, county of Essex.                                                                                                               |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                   | 2. Frame building. Water power.                                                                                                                        |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                | 3. In 1830. Owned by two individuals.                                                                                                                  |
| 4. Capital invested in ground and buildings, water power and in machinery?                                                                                                                                                                             | 4. In ground and buildings, with power, \$ 20,000; in machinery and machine-makers' tools \$ 18,000.                                                   |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                       | 5. In materials, &c. \$ 12,000.                                                                                                                        |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                  | 9. There has been 156,000 pounds yarn produced, averaging number 15, \$ 34,320; and new machinery to the amount of \$ 40,000 per annum.                |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                      | 12. Sixty men at machine-making, and 36 women and children. The men average 11 shillings per diem, women three dollars per week, children two dollars. |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                       | 13. The men average 11 hours throughout the year; other hands 12 hours.                                                                                |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                        | 15. Two horses.                                                                                                                                        |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                              | 16. New York and Philadelphia are the marts for yarn. Machinery made to order, and forwarded to all parts of the United States and South America.      |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                              | 19. Machinery to South America, also yarns.                                                                                                            |
| 20. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                 | 20. The credit is intended to average four months.                                                                                                     |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. Labor has advanced 15 per cent.                                                                                                                    |

*PATERSON, April 14, 1832.*

PLUNKET &amp; THOMPSON.

## DOCUMENT 11.—No. 18.

*Manufactory of Cotton, Iron, &c. in Paterson, Essex County, New Jersey.*

| QUESTIONS.                                                                       | ANSWERS.                                                                                                               |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                        | 1. Paterson, Essex county, New Jersey.                                                                                 |
| 2. Kind or description of manufactory; and whether water, steam, or other power? | 2. One mill for spinning cotton yarn; a machine shop, blacksmith's shop, brass and iron foundry; moved by water power. |

DECEMBER 11.—No. 18.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                  | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                     | 3. 1821; and is a private concern.                                                                                                                                                                                                                                                                                                                                                 |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                             | 4. \$150,000.                                                                                                                                                                                                                                                                                                                                                                      |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                            | 5. \$180,911.                                                                                                                                                                                                                                                                                                                                                                      |
| 9. Amount of articles annually manufactured since the establishment of the manufactory; description, quality, and value of each kind?                                                                                                                       | 9. About 200,000 lbs. cotton yarn, averaging number 18, worth 23 cents per pound; 20,000 spindles with preparation, at \$10 per spindle, inclusive of iron and brass castings, valued at \$10,000.                                                                                                                                                                                 |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                             | 10. 225,000 pounds upland cotton; about 600 tons of pig iron, 400 tons of Lehigh and Lackawanna coal; 120 tons bar iron; 15 tons steel; 50 chaldrons Virginia coal; 20,000 lbs. copper; 2,500 zinc; 2,500 blocktin; 1,500 pounds lead; about $\frac{1}{2}$ of the pig iron imported; steel, copper, blocktin, and zinc also imported, and $\frac{1}{2}$ of the bar iron; \$83,161. |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                             | 11. No importation.                                                                                                                                                                                                                                                                                                                                                                |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                           | 12. 220 men, averaging \$8 per week; 45 girls and 23 boys, averaging \$2 50 per week.                                                                                                                                                                                                                                                                                              |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                            | 13. 11 $\frac{1}{2}$ hours to the day, averaging 50 weeks to the year.                                                                                                                                                                                                                                                                                                             |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                             | 15. Eight horses for teaming.                                                                                                                                                                                                                                                                                                                                                      |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                   | 16. The yarn is sent to Philadelphia and New York, and there sold to weavers. The machinery sold principally in the United States, but recently some has been shipped to Mexico.                                                                                                                                                                                                   |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?                                                                                                                                   | 17. We believe not.                                                                                                                                                                                                                                                                                                                                                                |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                    | 18. Answered in No. 16.                                                                                                                                                                                                                                                                                                                                                            |
| 19. Whether any of the manufactures are exported to foreign countries; and, if so, where?                                                                                                                                                                   | 19. Answered in No. 16.                                                                                                                                                                                                                                                                                                                                                            |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                  | 20. Sold at a credit of from six to nine months.                                                                                                                                                                                                                                                                                                                                   |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. No material difference.                                                                                                                                                                                                                                                                                                                                                        |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                        | 22. Yarn has fallen 15 cents per pound within three years, and machinery \$1 50 per spindle within the same time.                                                                                                                                                                                                                                                                  |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                            | 24. Cash duties, and the appointment of custom-house officers, particularly appraisers, who are friendly to the protection of domestic manufactures.                                                                                                                                                                                                                               |



## DOCUMENT 11.—No. 18.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                        | 27. Answered in No. 10.                                                                                                                                                  |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Such reduction would cause spinning to cease, without a corresponding reduction in the wages of the operatives connected with the various branches of manufacturing. |

PATERSON, April 26, 1832.

GODWIN, CLARK & Co.  
Per J. M. CRISKOND.

## DOCUMENT 11.—No. 19.

*Statement of Cotton Manufactory in Paterson, Essex County, New Jersey.*

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                               | 1. Town of Paterson, county of Essex, and State of New Jersey.                              |
| 2. Kind or description of the manufactory; and whether water, steam or other power?                                                                                                                                                                                     | 2. Cotton manufactory; water power.                                                         |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                 | 3. 1827; private company.                                                                   |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                         | 4. \$40,000.                                                                                |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                        | 5. \$33,000 per annum for materials, and wages to hands.                                    |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                                        | 12. 65 men, women, and children.                                                            |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                         | 15. Two horses.                                                                             |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                               | 16. The manufactured goods are sent about 100 miles to a market.                            |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                              | 23. The present duties.                                                                     |
| 24. Is any change necessary in levying or collecting the duty on such articles, to prevent fraud?                                                                                                                                                                       | 24. Vigilance to prevent smuggling, and short credit on duties.                             |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Necessity would compel us to relinquish the business, and in every probability ruin us. |

DOCUMENT 11.—No. 19.—Continued.

| QUESTIONS.                                                                                                                                                    | ANSWERS.                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                | 30. Being ruined, we should have no capital to employ.                                                                                        |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.? | 31. Growing cotton we should consider the most lucrative business, unless the price of that article is very much lower than it is at present. |

CLARK AND ROBINSON.

DOCUMENT 11.—No. 20.

*Statement of Cotton Manufactory in Paterson, Essex County, New Jersey.*

| QUESTIONS.                                                                                                                                                                                                                                                  | ANSWERS.                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                   | 1. County of Essex, State of New Jersey.                                                           |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                        | 2. Cotton spinning; water power.                                                                   |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                     | 3. In 1825; individual concern.                                                                    |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                             | 4. \$36,000.                                                                                       |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                            | 5. Wages, \$500 per month.                                                                         |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                     | 7. Cause of decrease, excessive imports.                                                           |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                       | 9. Cotton yarn, value Nos. 20's to 30's, 5 cents above the number.                                 |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                             | 10. Cotton, 125,000 lbs.                                                                           |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                            | 12. Two men, \$10 per week each; 6 women, \$3 75 per week each; 43 children, \$2 25 per week each. |
| 13. How many hours a day employed? and what portion of the year?                                                                                                                                                                                            | 13. 11½ hours through the year.                                                                    |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                   | 16. Philadelphia.                                                                                  |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                    | 18. United States.                                                                                 |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                  | 20. Four to six months' credit.                                                                    |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. Increased within four years about two cents per pound on cotton yarn, by the advance in labor. |

## DOCUMENT 11.—No. 20—Continued.

| QUESTIONS.                                                                                                                                   | ANSWERS.                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                         | 22. Average about five cents above the No. from 20's upwards. |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition, in the home market, with similar articles imported? | 23. Nothing less than the present duty.                       |

CALEB M. GODWIN.

## DOCUMENT 11.—No. 21.

*Cotton Manufactory in Paterson, Essex County, New Jersey.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Paterson, Essex county, New Jersey.                                                                                                                           |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Two mills and one weaving shop, for spinning and weaving cotton, moved by water power.                                                                        |
| 3. When established; and whether a joint stock concern?                                                                               | 3. First established in 1815 and 1818, by individuals, but created a joint stock concern in 1828.                                                                |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                       | 4. Total capital is \$118,700.                                                                                                                                   |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                      | 5. About \$100,000 per annum for cost of raw materials, and wages paid to factory hands.                                                                         |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. About 465,000 yards of cotton canvass (sail cloth) are now made, of different qualities, from No. 1 to 10, which sells from 25 to 37 cents per yard.          |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?       | 10. About 501,000 pounds Louisiana and Alabama cotton of best quality, costing about \$56,000.                                                                   |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                       | 11. None imported.                                                                                                                                               |
| 12. Number of men, women, and children employed, and average wages of each class?                                                     | 12. Average wages of men per week \$8 25, of boys and females \$2 12 per week; employ 9 men, 36 boys, and 151 girls. N. B. 75 of the girls make \$2 78 per week. |
| 13. How many hours a day employed, and what portion of the year?                                                                      | 13. About 11½ hours for 50 weeks in the year, as there are many stoppages.                                                                                       |
| 15. Number of horses or other animals employed?                                                                                       | 15. 4 horses constantly employed in transporting to and from the factory, with two men, at 87½ cents per day, as drivers.                                        |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 16. Sent to most of the sea-port towns in the United States; also to the lakes.                                                                                  |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale; and to what extent?             | 17. English and Russia canvass compete with the cotton duck; they are not sold at lower prices, but necessarily come in competition.                             |

## DOCUMENT 10.—No. 21—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. Principally consumed in the United States, but if the home market could be secured to the American manufacturer, would soon become an article of large export.                                                                                                                                                                                                                 |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                                                                                                  | 19. Very little if any is exported at present.                                                                                                                                                                                                                                                                                                                                     |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. On a credit of 6 to 8 months; if for cash, a discount of 5 per cent. is allowed.                                                                                                                                                                                                                                                                                               |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                | 21. Has gradually lessened, in consequence of improvements and perfection of machinery, knowledge gained, and more rigid economy practised.                                                                                                                                                                                                                                        |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. I formerly obtained 4 cents per yard more for my canvass than I now ask for it.                                                                                                                                                                                                                                                                                                |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market, with similar articles imported?                                                                                                                                                                                                | 23. If the present rate of duty on foreign duck is maintained, the manufacture of cotton duck will not only be continued, but would probably be much extended, and the article become one of export: as cotton duck is as valuable for use as the foreign, it will, before long, get into general use, and supersede the imported duck.                                            |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 35. Being owned by three persons, or stockholders, no dividends have been declared: the profits are allowed to remain as an accumulating capital.                                                                                                                                                                                                                                  |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. Partly answered by No. 10.                                                                                                                                                                                                                                                                                                                                                     |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                       | 28. My establishment is the only one at present in New Jersey, and produces probably about one half of all that is at present made in the United States.                                                                                                                                                                                                                           |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29. If thus reduced, such quantities of foreign duck would be thrown into market as would reduce the price below the real cost of the article, it is believed, in the country from whence it was imported; and would so interfere with the manufacture of cotton duck that I should be obliged to suspend the manufacture of the article, if not eventually to stop it altogether. |
| 30. If it caused you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                                  | 30. If obliged to abandon the manufacture of cotton duck, a large amount of capital invested in machinery and fixtures would be a dead loss; it would not be used for other purposes; and the same reduction would so effect the other branches of the cotton busi-                                                                                                                |

## DOCUMENT 10.—No. 21—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?</p> <p>33. Amount of capital, and what proportion the borrowed capital bears to that which is real?</p> | <p>ness that I do not believe I could run a spindle to advantage. In this case, my capital invested in mills, water power, and machinery, might be set down as an actual loss. If the buildings, gearing, and machinery, did not cost us any more than in England, and if the wages paid to the hands employed in the mills, and all other wages incident to the manufacture of cotton generally, was reduced in this country to the same rate as paid in England, I could compete with the English manufacturer without duties.</p> <p>31. Partly answered above. I know of no manufacturing business in which I could engage with profit.</p> <p>33. Partly answered by 4th and 5th queries?</p> |

PATERSON, April 6, 1832.

SIR: I have answered such of the queries as I could; some I did not feel at liberty to answer, and to others it is difficult to answer briefly. I have not mentioned my rolling mill and nail factory, which, with the water rights, &c. cost me about \$30,000, but which I have not worked for the last year, owing to the *low price of nails*, caused by *home competition*. This factory has heretofore turned out 300 tons of nails per annum.

I will also take leave to remark, that, when the returns of mills, &c. was made from this State to the Committee of the New York Tariff Convention, I believe many persons did not return the full value of their establishments and water rights. It was so in mine: hence there may possibly arise some discrepancy between your reports of the value of the cotton establishments of this State and the report above mentioned. You will understand that I have not included the amount of the rolling mill and nail factory in my answer to No. 4.

Very respectfully, yours, &amp;c.

JNO. COLT.

CHARLES KINSLEY, Esq.

## DOCUMENT 11.—No. 22.

*Cotton Manufactory in Burlington County, State of New Jersey.*

| QUESTIONS.                                                                                                                                                                                                                                                                                                     | ANSWERS.                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. State and county in which the manufactory is situated?</p> <p>2. Kind or description of manufactory; and whether water, steam, or other power?</p> <p>3. When established; and whether a joint stock concern?</p> <p>4. Capital invested in ground and buildings, and water power, and in machinery?</p> | <p>1. New Jersey, Burlington county.</p> <p>2. One power loom and one spinning factory; one drove by steam and the other by water.</p> <p>3. Spinning factory in 1814, and weaving in 1829; individual concern.</p> <p>4. Capital in spinning \$69,000, and in weaving \$32,000; water power in spinning mill \$600 per annum exclusive.</p> |

## DOCUMENT 11.—No. 22.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                                                                                           | 5. Wages annually \$26,000, materials and cash paid for materials \$52,000 annually.                                                                                                                                                    |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of the profit upon that portion which is not borrowed?                                   | 6. \$20,000 borrowed at 6 per cent. per annum; on that portion not borrowed 3 per cent. per annum.                                                                                                                                      |
| 7. Cause of the increase (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                                                                     | 7. Fluctuations in the public mind from want of confidence in unanimity of the Government to protect our infant manufactures, scarcity of money, and excess of competition.                                                             |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                                                             | 8. Variable from 3 to 10 per cent.                                                                                                                                                                                                      |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                                                      | 9. Yarn 100,000 lbs., price fr. 17 to 60 cts.; cotton 115,000 lbs., from 32 to 10; cloth 500,000 yards, average 10 cents; so the great profit was enjoyed only a few years on spinning, at its commencement, and for the last 8 months. |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                                                                                                           | 12. 32 men, average \$6 weekly, 80 girls, at \$3, 68 children, average \$1.                                                                                                                                                             |
| 13. How many hours a day employed? and what portion of the year?                                                                                                                                                                                                                                                                           | 13. 12 hours in summer and 10 hours in winter; one quarter of the year for children to school, either in fall or spring.                                                                                                                |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. One horse.                                                                                                                                                                                                                          |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. Sold in Philadelphia, 30 miles distant.                                                                                                                                                                                             |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                                                                  | 17. To a large extent, at auction.                                                                                                                                                                                                      |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. United States principally.                                                                                                                                                                                                          |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Sold by commission at 6 to 8 months' credit, 5 to 7½ per cent. for commission and guarantee.                                                                                                                                        |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                | 21. The fluctuations have been against the manufacturer in materials, (see 9th query;) price of labor variable from 5 to 10 per cent.                                                                                                   |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. Yarn from 60 to 17 cents, cloth from 20 to 12½, and 7½ to 5½ printing cloths; in 1815 plaids sold at 28, and in 1832 sold at 9 to 11 cents.                                                                                         |
| 23. What rate of duty necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                    | 23. Present tariff duty.                                                                                                                                                                                                                |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. See 6th query.                                                                                                                                                                                                                      |

| QUESTIONS.                                                                                                                                                                                                                                                                     | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?</p>                                                                                            | <p>26. See 5th, 6th, and 12th queries.</p>                                                                                                                                                                                                                                                                                                                                       |
| <p>27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?</p>                                                                                                                        | <p>27. 6,000 lbs. flour, leather for belts, &amp;c., 800 lbs., coal 80 tons, wood 300 cords, shuttles 150, pickers 500, reeds 200, heddles 150 sets, 115,000 pounds cotton, besides iron and wood work, with sheep skins, glue, list, oil 800 galls, and indigo 2,000 lbs., and coppers and lime, and dye stuffs of most all descriptions; mostly all domestic manufactures.</p> |
| <p>29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?</p> | <p>29. Most certainly abandon it, as a gambler swindled out of his last dollar.</p>                                                                                                                                                                                                                                                                                              |
| <p>30. If it would cause you to abandon your business, in what way would you employ your capital?</p>                                                                                                                                                                          | <p>30. In no other way, having none left. If I, who have been long in the business, would have to abandon it, who would purchase my property? It would be the most unproductive stock in the United States; I could not sell it.</p>                                                                                                                                             |
| <p>33. Amount of capital, and what proportion the borrowed capital bears to that which is real?</p>                                                                                                                                                                            | <p>33. One-fifth; in all \$101,000.</p>                                                                                                                                                                                                                                                                                                                                          |
| <p>34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.? and how gradual the reduction should be?</p>                                                                                               | <p>34. Present rate of tariff duties, which has for its object the encouragement of our manufactures, should continue six or eight years; all others should be abandoned. The most of the manufacturer's capital is perishable, such as machinery, &amp;c.; he would require 12 per ct. as equal remuneration.</p>                                                               |
| <p>36. What would be the operation of this change upon the frauds at present supposed to be practised?</p>                                                                                                                                                                     | <p>36. Frauds are more supposed than real, but I am certain that the operation of any reduction would be ruinous to the manufacturer.</p>                                                                                                                                                                                                                                        |

JAMES HOY.

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**SCHEDULE**  
**OF**  
**COTTON MANUFACTURES**  
**IN THE**  
**STATE OF NEW JERSEY.**

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## Schedule of Cotton Manufactures

| Proprietors.                                                                 | County.    | Established. | Concern. | Capital invested. | Am't of materials and wages. | Am't annually manufactured. | Kind.     | Amount in value. |
|------------------------------------------------------------------------------|------------|--------------|----------|-------------------|------------------------------|-----------------------------|-----------|------------------|
| John Colt                                                                    | Essex Co.  | -            | -        | \$118,700         | 100,000                      | 465,000                     | Cotton.   | 144,150          |
| Daniel Holsman                                                               | Paterson   | -            | -        | 142,000           | 80,000                       | 345,000                     | Canvaas   | -                |
| Collett & Smith                                                              | Do         | 1813         | Indi.    | 125,000           | 99,510                       | -                           | lbs. yarn | -                |
| Ridgway & Dickey                                                             | Do         | 1822         | Cop.     | 44,500            | 26,500                       | 135,000                     | Do        | 33,750           |
| Warren Haight                                                                | Do         | 1828         | "        | 35,000            | 21,000                       | 100,000                     | Do        | 23,000           |
| Clark & Robinson                                                             | Do         | 1826         | "        | 40,000            | 33,000                       | -                           | -         | -                |
| Caleb M. Godwin                                                              | Do         | 1827         | "        | 36,000            | 19,750                       | 120,000                     | Do        | 27,600           |
| Benson & Godwin                                                              | Do         | 1828         | Indi.    | 31,000            | 16,060                       | -                           | -         | -                |
| John W. Berry                                                                | Do         | 1831         | Cop.     | 80,000            | 35,000                       | 100,000                     | Do        | 32,252           |
| Munn & Whitehead                                                             | Do         | 1814         | Indi.    | 54,160            | 58,730                       | 267,500                     | Do        | 56,925           |
| Prall & Brothers                                                             | Bergen Co. | 1826         | Joint    | 16,000            | 15,000                       | 60,000                      | Do        | 18,000           |
| James Hoy                                                                    | Do         | 1831         | Cop.     | 100,000           | 78,000                       | 100,000                     | Do        | 38,000           |
| Godwin, Clark, & Co.                                                         | Trenton    | 1814         | Indi.    | 150,000           | 180,911                      | 200,000                     | Do        | 246,000          |
| Plunket & Thompson                                                           | Paterson   | 1821         | Cop.     | 38,000            | 12,000                       | 156,000                     | Do        | 74,320           |
| Rogers, Ketchum, & Grosvenor                                                 | Do         | 1830         | "        | 50,000            | 10,000                       | -                           | -         | -                |
| Paul & Beggs                                                                 | Do         | 1826         | "        | 22,000            | 30,000                       | -                           | -         | -                |
| William H. Morris                                                            | Do         | 1831         | Indi.    | 15,000            | 11,000                       | -                           | -         | -                |
| John Hinton & Co.                                                            | Hunterdon  | 1832         | Cop.     | 11,000            | -                            | -                           | -         | -                |
| B. Atterbury                                                                 | Paterson   | 1832         | Cop.     | 6,000             | -                            | 55,000                      | Do        | 13,750           |
| James Richards                                                               | Do         | 1831         | Indi.    | 28,000            | -                            | 114,000                     | Do        | 26,220           |
| Charles Zabriskie                                                            | Do         | 1831         | "        | -                 | -                            | -                           | -         | -                |
| N. P. Thomas                                                                 | Bergen Co. | 1830         | "        | 25,000            | -                            | 164,000                     | Do        | 36,750           |
| A. T. Van Voorheis                                                           | Morris Co. | 1828         | "        | 15,000            | -                            | 50,000                      | Do        | 11,000           |
| Blair & Wilson                                                               | Bergen Co. | 1832         | "        | 20,000            | -                            | -                           | -         | -                |
| John Rogers                                                                  | Warren Co. | 1825         | Cop.     | 18,000            | -                            | -                           | -         | -                |
| Lewis Waln                                                                   | Bergen Co. | 1812         | Indi.    | 4,500             | -                            | 54,000                      | Do        | -                |
| Lippincott & Richards                                                        | Trenton    | 1814         | "        | 169,000           | -                            | 100,000                     | Do        | -                |
| E. & R. Green                                                                | Gloucester | 1823         | Cop.     | 130,000           | -                            | -                           | -         | -                |
| Howell                                                                       | Warren Co. | 1831         | "        | 18,700            | -                            | -                           | -         | -                |
| Isaac S. Miller                                                              | Warren Co. | 1831         | Indi.    | 20,000            | -                            | -                           | -         | -                |
| Ezekiel Miller                                                               | Essex Co.  | 1828         | "        | 22,000            | -                            | -                           | -         | -                |
| P. Boyden                                                                    | Do         | 1828         | "        | 20,000            | -                            | -                           | -         | -                |
| John Haight                                                                  | Do         | 1828         | "        | 6,000             | -                            | -                           | -         | -                |
| Retreat Factory                                                              | Do         | 1828         | "        | 6,000             | -                            | -                           | -         | -                |
| Coddington                                                                   | Burlington | 1831         | "        | 20,000            | -                            | -                           | -         | -                |
| Wortendyke & Co.                                                             | Bergen Co. | 1831         | "        | 10,000            | -                            | -                           | -         | -                |
| General Acker                                                                | Do         | 1831         | Cop.     | 10,000            | New                          | -                           | -         | -                |
| Close & Co.                                                                  | Do         | 1825         | Indi.    | 16,000            | -                            | -                           | -         | -                |
| Isaac Van Blarcom                                                            | Do         | 1839         | Cop.     | 10,000            | New                          | -                           | -         | -                |
| James Trussler                                                               | Morris Co. | 1811         | Indi.    | 16,000            | -                            | -                           | -         | -                |
| Thomas Walker                                                                | Bergen Co. | 1832         | "        | 10,000            | New                          | pieces                      | -         | -                |
| James Rennie                                                                 | Essex Co.  | 1827         | "        | 50,000            | 275,000                      | 100,000                     | -         | 350,000          |
| A. & R. Carrick                                                              | Do         | 1827         | "        | 8,000             | 2,500                        | -                           | -         | -                |
| James Plunket                                                                | Bergen Co. | 1831         | "        | 15,000            | -                            | -                           | -         | -                |
| Glenn                                                                        | Paterson   | 1822         | "        | 100,000           | -                            | -                           | -         | -                |
|                                                                              | Bergen Co. | 1822         | "        | 16,000            | -                            | -                           | -         | -                |
|                                                                              | Do         | 1832         | "        | 5,000             | New                          | -                           | -         | -                |
| Manufactory of hemp and flax, John Travers, for Phenix Manufacturing Company | Paterson   | 1824         | joint    | 1,893,560         | 170,000                      | See in circular.            | -         | -                |

—No. 23.

in the State of New Jersey.

| Amount of<br>raw mate-<br>rial. | Value. | No. of men. | Wages. | Boys. | Wages. | Girls.      | Wages. | Hours.   | Horses. | Drivers. | Credit.       | Remarks.                                  |
|---------------------------------|--------|-------------|--------|-------|--------|-------------|--------|----------|---------|----------|---------------|-------------------------------------------|
| <i>Rs.</i>                      |        |             |        |       |        |             |        |          |         |          | <i>Months</i> |                                           |
| 501,000                         | 56,000 | 98          | 25     | 36    | 2 12   | 151         | 2 12   | 11½      | 4       | 2        | 6 & 8         |                                           |
| 420,000                         | 46,000 | 202         | -      | -     | -      | -           | -      | 11½      | 4       | 2        | 6 & 8         |                                           |
| 433,000                         | 51,960 | 209         | 3      | -     | -      | 162         | 2      | 11½      | 2       | -        | 4 & 8         |                                           |
| 160,000                         | 17,600 | 87          | -      | 60    | 2      | -           | -      | 11½      | 2       | -        | 4 & 6         |                                           |
| 120,000                         | 13,400 | 48          | -      | 14    | 2      | 19          | 2      | 11½      | 2       | 1        | 4             |                                           |
| 173,000                         | 19,030 | 65          | -      | -     | -      | -           | -      | -        | 2       | -        | -             |                                           |
| 125,000                         | 13,750 | 210         | -      | 43    | 2 25   | 63          | 75     | -        | -       | -        | 4 & 8         |                                           |
| 100,000                         | 11,500 | 3           | -      | 28    | -      | 6           | -      | 11½      | 2       | -        | 6             |                                           |
| 116,000                         | 12,760 | 127         | -      | 100   | 2      | -           | -      | 11½      | 3       | -        | 6 & 8         |                                           |
| 275,000                         | 27,500 | 156         | -      | 76    | 1 18½  | 92          | 50     | 12       | 5       | -        | 6 & 8         |                                           |
| 73,000                          | 8,280  | 25          | -      | 19    | 2      | 93          | -      | 11       | 2       | 1        | 4 & 7         |                                           |
| 115,000                         | 13,800 | 326         | -      | 68    | 1      | 80          | 3      | 11       | 1       | -        | 6 & 8         |                                           |
| -                               | 83,161 | 220         | 8      | 23    | 2 50   | 45          | 2 50   | 11½      | 8       | -        | 6 & 9         | 20,000 spin at \$10 pr. sp.               |
| -                               | -      | 60          | 8 25   | 56    | 3      | -           | 2      | 11 to 12 | 12      | -        | 4             | Machinery not given,<br>only value.       |
| -                               | -      | 103         | 6      | 17    | 2 48   | -           | -      | 11       | 4       | -        | 4 & 12        | Do. alone at present.                     |
| -                               | -      | 40          | 9      | -     | -      | -           | -      | 11       | -       | -        | -             | Do. do.                                   |
| 75,000                          | 8,250  | 67          | -      | 20    | 1 87½  | -           | -      | 11½      | -       | -        | -             |                                           |
| 62,000                          | 6,820  | -           | -      | 7     | 3      | 92          | 40     | -        | -       | -        | -             |                                           |
| 127,600                         | 14,036 | 30          | 2 50   | 40    | 1 50   | 30          | 2      | -        | -       | -        | -             |                                           |
| 175,000                         | 19,250 | -           | -      | 31    | 2 25   | { 27 2 25 } |        | 11½      | -       | -        | -             |                                           |
| 65,000                          | 7,150  | 12          | 3      | 12    | 2      | { 20 1 50 } |        | -        | -       | -        | -             |                                           |
| 105,000                         | 11,550 | 92          | 72     | 20    | 1 75   | -           | -      | -        | -       | -        | -             | Not in operation.                         |
| 62,400                          | 6,864  | 30          | 4 50   | 10    | 2      | 11          | 50     | -        | -       | -        | -             |                                           |
| 170,000                         | 18,700 | 40          | 4 75   | 80    | 2 50   | -           | -      | -        | -       | -        | -             |                                           |
| 250,000                         | 27,500 | 42          | 5      | 46    | 2      | 20          | 1      | -        | -       | -        | -             |                                           |
| -                               | -      | -           | -      | -     | -      | -           | -      | -        | -       | -        | -             | Declines answering.                       |
| -                               | -      | -           | -      | -     | -      | -           | -      | -        | -       | -        | -             | No returns.                               |
| -                               | -      | -           | -      | -     | -      | -           | -      | -        | -       | -        | -             | Now preparing, and<br>machinery made.     |
| -                               | -      | -           | -      | -     | -      | -           | -      | -        | -       | -        | -             | No return                                 |
| -                               | -      | -           | -      | -     | -      | -           | -      | 10       | -       | -        | -             | Calico printing, wages<br>36,000 dollars. |
| -                               | -      | 20          | 7      | -     | -      | 14          | 3      | -        | -       | -        | -             | Do do                                     |
| -                               | -      | 25          | 7      | 20    | 1 25   | -           | -      | -        | 3       | -        | -             | Do do                                     |
| -                               | -      | -           | -      | -     | -      | -           | -      | -        | -       | -        | -             | Cotton. Declines ans'g.                   |
| -                               | -      | -           | -      | -     | -      | -           | -      | -        | -       | -        | -             | Not yet started.                          |
| -                               | -      | -           | -      | -     | -      | -           | -      | -        | -       | -        | -             | Do.                                       |
| 600,000                         | 63,000 | 138         | -      | 42    | -      | 114         | -      | 12       | -       | -        | 4 & 6         |                                           |

## DOCUMENT 11.—No. 24.

*Statement of the Manufacture of Woollen, Rahway, New Jersey.*

| QUESTIONS.                                                                                                                                                                                                                                                                                               | ANSWERS.                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                                | 1. Essex county, State of New Jersey. |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                     | 2. Water power.                       |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                                  | 3. 1828. Individual.                  |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                          | 4. \$25,000—cost \$100,000.           |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                                                         | 5. \$60,000.                          |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of the profit upon that portion which is not borrowed? | 6. Not a fair question.               |
| 7. Cause of decrease, as the case may be, of profit?                                                                                                                                                                                                                                                     | 7. Wool high.                         |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                           | 8. 20 per cent. per annum.            |
| 9. Amount of articles annually manufactured since the establishment of the manufactory; description, quality, and value of each kind?                                                                                                                                                                    | 9. Not fair.                          |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                          | 11. None.                             |
| 12. Number of men, women, and children, employed, and average wages of each class?                                                                                                                                                                                                                       | 12. 90 men, women, and children.      |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                         | 13. 12 hours each.                    |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                          | 15. 2 horses.                         |
| 16. Whether the manufactures find a market at the manufactory; if not, how far they are sent to a market?                                                                                                                                                                                                | 16. Sent to market.                   |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                                | 17. No.                               |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                 | 18. Mostly among negroes.             |
| 19. Whether any of the manufactures are exported to foreign countries; and if so, where?                                                                                                                                                                                                                 | 19. None.                             |
| 20. Whether the manufacture is sold by the manufacturer for cash; and if on credit, at what credit; if bartered, for what?                                                                                                                                                                               | 20. Sold on eight months' credit.     |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                               | 23. No duty on wool.                  |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                         | 24. No.                               |

## DOCUMENT 11.—No. 24—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                               | ANSWERS.                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| 25. What has been the rate of your profits annually for the last three years; and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Not fair.                |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                         | 27. \$15,000.                |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                     | 28. Dont know.               |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                 | 29. Reduce the duty on wool. |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                           | 30. Agriculture.             |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                            | 31. Untried.                 |
| 33. Amount of capital; and what portion the borrowed capital bears to that which is real?                                                                                                                                                                                                                                                | 33. No borrowed.             |
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                                                                                                                                                                      | 36. Take duty from wool.     |

WM. N. BOWNE.

## DOCUMENT 11.—No. 25.

*Statement of the Manufacture of Carpeting in Bergen County, New Jersey.*

|                                                                                                 |                                         |
|-------------------------------------------------------------------------------------------------|-----------------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Bergen county, New Jersey.           |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?            | 2. Woollen carpet factory—manual labor. |
| 3. When established; and whether a joint stock concern?                                         | 3. 1831; individual concern             |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                 | 4. \$3,000.                             |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 5. \$15,000.                            |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of the profit upon that portion which is not borrowed?</p> <p>9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?</p> <p>10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?</p> <p>11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?</p> <p>12. Number of men, women, and children, employed, and average wages of each class?</p> <p>13. How many hours a day employed?</p> <p>14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?</p> <p>15. Number of horses or other animals employed?</p> <p>16. Whether the manufactures find a market at the manufactory; if not, how far they are sent to a market?</p> <p>17. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?</p> <p>18. Where are the manufactures consumed?</p> <p>19. Whether any of the manufactures are exported to foreign countries; and if so, where?</p> <p>20. Whether the manufacture is sold by the manufacturer for cash; and if on credit, at what credit; if bartered, for what?</p> <p>22. The prices at which the manufactures have been sold by the manufacturer since the establishment?</p> <p>23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?</p> <p>29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?</p> <p>30. If it would cause you to abandon your business, in what way would you employ your capital?</p> <p>31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?</p> | <p>6. Time must try; cannot tell at present, the establishment being in its infancy.</p> <p>9. Say at the rate of 15,000 yards per annum of ingrained carpeting, valued at \$1 18 per yard, \$16,700.</p> <p>10. 17,160 lbs. at 30 cents, of woollen yarn, and 6,760 lbs. at 70 cents of worsted; all imported from Scotland; valued at \$12,064.</p> <p>11. At about the same price.</p> <p>12. 6 men at \$6 per week; 1 woman and 1 boy at \$2 per week each.</p> <p>13. 10 hours.</p> <p>14. None in same county or State, within my knowledge; in Scotland wages are 50 per cent. less than here.</p> <p>15. None.</p> <p>16. New York, 15 miles.</p> <p>17. They do very materially, and to a large extent.</p> <p>18. In the United States.</p> <p>19. No where.</p> <p>20. 6 months' credit.</p> <p>22. See question 9.</p> <p>23. Present rate of duty.</p> <p>29. Abandon the business.</p> <p>30. Should have none to employ.</p> <p>31. Do not know.</p> |

DOCUMENT 11.—No. 25.—Continued.

| QUESTIONS.                                                                                  | ANSWERS.                             |
|---------------------------------------------------------------------------------------------|--------------------------------------|
| 37. Proportion which the production by the American manufacturers bears to the consumption? | 37. Supposed 1 to 3, or thereabouts. |

Yours, with respect,

ROBT. THOMSON.

## DOCUMENT 11.—No. 26.

*Satinet Factory, New Prospect, Bergen County, New Jersey, March 6, 1832.*

| QUESTIONS.                                                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                                | 1. Essex county, in the State of New Jersey.                                                                                                           |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                     | 2. Satinet factory, water power.                                                                                                                       |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                                  | 3. Established in Bergen county in 1826, moved to Essex county in Oct'r, 1831, owned by John Barrow & Sons.                                            |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                          | 4. Ground and water power \$12,000, and buildings \$12,000.                                                                                            |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                                                         | 5. Machinery \$15,000, and floating capital \$10,000.                                                                                                  |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of the profit upon that portion which is not borrowed? | 6. The business has been a bare one, and could not be sustained without the strictest economy.                                                         |
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                                    | 7. Owing to the greater or less quantity of coarse woollen goods imported.                                                                             |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                           | 8. Mercantile about 15, and agricultural about 5 per cent. per annum.                                                                                  |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                    | 9. One hundred and fifty thousand yards annually, worth from 45 to 75 cents per yard.                                                                  |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                          | 10. Sixty five thousand pounds American, and twenty-five thousand foreign; the former worth 55 cents, the latter about the same; according to quality. |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                          | 11. Have not heard of any satinets being imported.                                                                                                     |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                        | 12. Forty-two men at \$5 per week, twenty-six women at \$3 50 per week, and twenty children at \$1 25 per week.                                        |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                         | 13. Twelve hours the year round.                                                                                                                       |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                                                           | 14. About the same, with a few exceptions, throughout the county. Know nothing about foreign countries.                                                  |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. Three horses.                                                                                                                                        |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. To New York and Philadelphia.                                                                                                                        |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                                                                  | 17. Coarse woollens and fustians come in competition with them at both places. (See 7th query.)                                                          |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. In all parts of the United States.                                                                                                                   |
| 19. Whether any of the manufactures have been exported to foreign countries? and if so, where?                                                                                                                                                                                                                                             | 19. A few have been tried in South American markets.                                                                                                     |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Sold at six months' credit.                                                                                                                          |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                | 21. Wool advanced rapidly from 1829 to 1831, but is now falling off.                                                                                     |
| 22. The prices at which the manufactures have been sold by the manufacturer, since the establishment?                                                                                                                                                                                                                                      | 22. In 1826, 55 cents; 1827, 40 cents; 1828, 45 cents; 1829, 47 cents; 1830, 52 cents; 1831, 55 cents; 1832, to the last sales, 50 cents.                |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition, in the home market, with similar articles imported?                                                                                                                                                                                               | 23. Leave the duties as they are, and detect frauds, and with industry and economy we can exist.                                                         |
| 24. Is any change necessary in levying or collecting the duty on such articles, to prevent fraud?                                                                                                                                                                                                                                          | 24. We think there is.                                                                                                                                   |
| 25. What has been the rate of your profits, annually, for the last three years? And if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Answered in the 6th query.                                                                                                                           |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. About two-thirds raw material, and one-third labor and profits.                                                                                      |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. About 900 individuals are clothed and fed by the establishment, and three-fourths of raw materials, including cotton warps, are domestic production. |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                       | 28. Do not know the extent.                                                                                                                              |

| QUESTIONS.                                                                                                                                                                                                                                                                     | ANSWERS.                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 18½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?</p> | <p>29. Should be compelled to abandon it.</p>                                                                                                             |
| <p>30. If it would cause you to abandon your business, in what way would you employ your capital?</p>                                                                                                                                                                          | <p>30. If we should have any left, should think it most prudent to go to Europe, and commence manufacturing where the industrious are protected.</p>      |
| <p>31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?</p>                                                                                                           | <p>31. We are strangers to other businesses, but should a reduction of 12½ cents take place, it would be madness for any manufacturer to continue it.</p> |
| <p>32. Are not the manufactures of salt and iron, remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?</p>                                                                            | <p>32. Know nothing of the nature of their business or location.</p>                                                                                      |
| <p>33. Amount of capital, and what proportion the borrowed capital bears to that which is real?</p>                                                                                                                                                                            | <p>33. Answered in the 4th and 5th queries.</p>                                                                                                           |
| <p>34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent., and how gradual the reduction should be?</p>                                                                                             | <p>34. The smallest reduction would be ruinous to the woollen manufacturer.</p>                                                                           |
| <p>35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum?</p>                                                        | <p>35. Dont know.</p>                                                                                                                                     |
| <p>36. What would be the operation of this change upon the frauds at present supposed to be practised?</p>                                                                                                                                                                     | <p>36. Dont know.</p>                                                                                                                                     |
| <p>37. Proportion which the production by the American manufacturers bears to the consumption?</p>                                                                                                                                                                             | <p>37. Dont know.</p>                                                                                                                                     |
| <p>38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?</p>                                                                                                                                        | <p>38. Dont know.</p>                                                                                                                                     |
| <p>39. Average profit of money or capital in the United States?</p>                                                                                                                                                                                                            | <p>39. Dont know.</p>                                                                                                                                     |
| <p>40. Average rate of wages?</p>                                                                                                                                                                                                                                              | <p>40. Answered in the 12th query.</p>                                                                                                                    |

DANIEL LORENE, *Agent.*

To the Hon. CHAS. KINSEY,  
*New Prospect, Bergen County.*



## DOCUMENT 11.—No. 27.

*John Morrow's Statement of Woollen Factory, County of Bergen, State of New Jersey.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. County of Bergen, State of New Jersey.                                                                                                                           |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Woollen factory; water power.                                                                                                                                    |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Established in 1825. Individual property—owned by John Morrow.                                                                                                   |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Thirty thousand dollars.                                                                                                                                         |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                                                     | 5. About 20 thousand dollars of floating capital.                                                                                                                   |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. The establishment is not worth first cost after paying lawful interest, nor could it be sustained without the greatest economy.                                  |
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                                | 7. Owing to the quantity of coarse woollen goods, and coarse cotton imported, and coming in competition.                                                            |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Mercantile, 15 per cent.; agriculture, 5 per cent. per annum.                                                                                                    |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. 120 thousand yards satinets, from 40 to 75 cts. per yard, for 7 years, annually.                                                                                 |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. 50 thousand pounds American wool; 25 thousand pounds foreign: the former, last year, at 55 cts. per lb., this year 20 per cent. less; the latter in proportion. |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. No satinets imported as I know.                                                                                                                                 |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. 40 men at \$5 per week; 16 girls, over 16 years, at \$2 50 per week; 18 boys and girls, from 12 to 16 years, average wages at \$1 50.                           |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                     | 13. 11 hours per day, year through.                                                                                                                                 |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 14. The same wages and steady employment in this country; in other (foreign) countries, one-fourth.                                                                 |
| 15. Number of horses, or other animals employed?                                                                                                                                                                                                                                                     | 15. 3 horses.                                                                                                                                                       |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. To New York, 16 miles, the only market.                                                                                                                         |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                            | 17. Large quantities of imported goods. See 7th query.                                                                                                              |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. In all parts of the United States.                                                                                                                              |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                             | 19. Some to South America.                                                                                                                                          |

## QUESTIONS.

20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?

21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?

22. The prices at which the manufactures have been sold by the manufacturer since the establishment?

23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?

24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?

25. What has been the rate of your profits, annually, for the last three years?—and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually?

26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?

27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?

28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?

29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to  $12\frac{1}{2}$  per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?

30. If it would cause you to abandon your business, in what way would you employ your capital?

31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to  $12\frac{1}{2}$  per cent.?

32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?

## ANSWERS.

20. Sold at 8 months' credit. I pay 5 per cent. for selling.

21. The labor the same, but more facility by improved machinery, wool advanced 75 per cent. from 1829 to 1831; now from 20 to 25 per cent. less, and still on the decline, which is owing to the quantity of American wool in market this year.

22. 1825, 75 cts. per yard; 1826, 55 cts.; 1827, 40 cts.; 1828, 45 cts.; 1829, 47 cts.; 1830, 52 cts.; 1831, 55 cts.; 1832, to this date, 45 cents per yard.

23. I leave this to the wisdom of Congress.

24. I think there is.

25. Answered in 6th query.

26. Two-thirds is about the raw material, and one-third labor and profits, &c., &c.

27. 251 individuals are clothed and fed by the establishment with the productions and manufacture of the country, and three-fourths of the raw material is of domestic production.

28. 660 thousand yards is produced in this State; other States I cannot say the extent.

29. I think my capital would be entirely lost.

30. I should have none to employ otherwise. I think my capital would be entirely lost.

31. Should such a reduction take place, there would not be a woollen factory in operation in the country in 12 months.

32. This I am not acquainted with.

## DOCUMENT 11.—No. 27—Continued.

| QUESTIONS.                                                                                                                                                                                                       | ANSWERS.                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                     | 33. Answered in 4th and 5th queries.                                                                |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent. and how gradual the reduction should be?                                         | 34. Refer to 6th query: a small reduction would cause inevitable ruin to the wool-len manufacturer. |
| 35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum? | 35. I cannot say.                                                                                   |
| 40. Average rate of wages?                                                                                                                                                                                       | 40. Answered in 12th query.                                                                         |

The Hon. C. KINSEY.

DEAR SIR: Annexed is my answers to the different queries; which, I trust, you will find correct by corresponding answers from other manufacturers.

Yours respectfully,

JOHN MORROW.

NORTH PATERSON, 2d April, 1832.

## DOCUMENT 11.—No. 28.

*Letter from J. R. Clauson to Charles Kinsey, enclosing statements of four Woollen Manufactories situated in Salem County, State of New Jersey.*

WOODSTOCK, 9th April, 1832.

SIR: Enclosed I send you schedules of four of our woollen manufactories in this county. I could not get them sooner.] Two others remain, which I could not get: they average about the same as the others.

Yours, respectfully,

J. R. CLAUSON.

## DOCUMENT 11.—No. 29.

*Schedule of Capital invested, description and quantity of Goods annually made, the quantity of all Materials annually used, and other particulars relative to the Pilesgrove Factory, situated in the township of Pilesgrove, County of Salem, and State of New Jersey, for the year A. D. 1831.*

|                                                                                               | Articles of the growth or production of foreign countries. |                         | Articles of the growth or production of the United States. |                         |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------|------------------------------------------------------------|-------------------------|
|                                                                                               | Whole average quantity used annually.                      | Aggregate am't in doll. | Whole average quantity used annually.                      | Aggregate am't in doll. |
| Amount of capital invested, including the average annual amount of stock and goods on hand, - | \$3,000                                                    |                         |                                                            |                         |
| Number of persons employed, viz.                                                              |                                                            |                         |                                                            |                         |
| Five males under sixteen years of age, -                                                      | 5                                                          |                         |                                                            |                         |
| Males, thirty and over forty years of age, -                                                  | 2                                                          |                         |                                                            |                         |
| Number of persons in families, exclusive of the above, but maintained by their wages, -       | 7                                                          |                         |                                                            |                         |
| Aggregate amount of wages, -                                                                  | \$340                                                      |                         |                                                            |                         |
| Average amount of value of goods made, -                                                      | 500                                                        |                         |                                                            |                         |
| Narrow cloth in yards, -                                                                      | 422                                                        | -                       | 422                                                        | \$423                   |
| Satinet in yards, -                                                                           | 220                                                        | -                       | 220                                                        | 1 25                    |
| Number of sets of cards in use, -                                                             | 2                                                          |                         |                                                            |                         |
| Quantity of wool in pounds -                                                                  | 1,500                                                      | -                       | 1,500                                                      | 7 50                    |
| Cotton for warps, -                                                                           | 33                                                         |                         | 33                                                         | 11 75                   |
| Indigo, -                                                                                     | 1                                                          | 1 \$150                 |                                                            |                         |
| Logwood, fustic, camwood, and other dye woods, -                                              | 284                                                        | 284 11 75               |                                                            |                         |
| Vitriol, copperas, and other chemicals, -                                                     | 30                                                         | 300                     |                                                            |                         |
| Skimming, -                                                                                   | 129                                                        | -                       | 129                                                        | 8 06                    |
| Sperm oil, -                                                                                  | 1 gal.                                                     | 1 gallon 1 00           |                                                            |                         |
| Sweet oil, 1 bottle, -                                                                        | 1                                                          | 50                      |                                                            |                         |
| Soft soap in barrels, 2, -                                                                    | 2                                                          | -                       | 2                                                          | 6                       |
| Wood used for fuel, 3 cords, -                                                                | 3                                                          | -                       | 3                                                          | 6                       |
| Materials used in repairing, annually, viz.                                                   |                                                            |                         |                                                            |                         |
| Screws, nails, cards, tacks, -                                                                | 20                                                         | -                       | 20                                                         | 20                      |
| Number of barrels of flour used, -                                                            | 5                                                          | -                       | 5                                                          | 25                      |

## DOCUMENT 11.—No. 30.

*Schedule of Capital invested, description and quantity of Goods annually made, the quantity of all Materials annually used, and other particulars relative to the Pilesgrove Factory, situated in the township of Pilesgrove, County of Salem, and State of New Jersey, for the year A. D. 1831.*

|                                                                                                 |         | Articles of the growth or production of foreign countries. |                           | Articles of the growth or production of the United States. |                           |
|-------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------|---------------------------|------------------------------------------------------------|---------------------------|
|                                                                                                 |         | Whole average quantity used annually.                      | Aggregate amt in dollars. | Whole average quantity used annually.                      | Aggregate amt in dollars. |
| Amount of capital invested, including the average annual amount of stock and goods on hand, .   | \$4,000 |                                                            |                           |                                                            |                           |
| Number of persons employed, viz.                                                                |         |                                                            |                           |                                                            |                           |
| Three males under 16 years of age, . . . . .                                                    | 3       |                                                            |                           |                                                            |                           |
| Males 21 years of age and upwards, . . . . .                                                    | 4       |                                                            |                           |                                                            |                           |
| Number of persons in families, exclusive of the above, but maintained by their wages, . . . . . | 7       |                                                            |                           |                                                            |                           |
| Aggregate amount of wages, . . . . .                                                            | 1,100   |                                                            |                           |                                                            |                           |
| Average amount of value of goods made, . . . . .                                                | 1,700   |                                                            |                           |                                                            |                           |
| Narrow cloth, in yards, . . . . .                                                               | 900     | -                                                          | -                         | 900                                                        | 900                       |
| Satinet, in yards, . . . . .                                                                    | 600     | -                                                          | -                         | 600                                                        | 460                       |
| Number of sets of cards in use, . . . . .                                                       | 2       | -                                                          | -                         | -                                                          | -                         |
| Quantity of wool, in pounds, . . . . .                                                          | 3,000   | -                                                          | -                         | 3,000                                                      | 1,380                     |
| Cotton, in warps, . . . . .                                                                     | 100     | -                                                          | -                         | 100                                                        | 30                        |
| Indigo, pot and pearl ashes, madder, . . . . .                                                  | 50      | 50                                                         | 10                        | -                                                          | -                         |
| Logwood, fustic, camwood, and other dye-woods, . . . . .                                        | 2,000   | 2,000                                                      | 42                        | -                                                          | -                         |
| Alum, vitriol, copperas, and other chemicals, . . . . .                                         | 300     | 300                                                        | 18                        | -                                                          | -                         |
| Glue and pates, . . . . .                                                                       | 100     | -                                                          | -                         | 100                                                        | 12                        |
| Sperm oil, in gallons, . . . . .                                                                | 32      | 32                                                         | 25                        | -                                                          | -                         |
| Sweet oil, in bottles, . . . . .                                                                | 6       | 6                                                          | 2                         | -                                                          | -                         |
| Soft soap, in barrels, . . . . .                                                                | 6       | -                                                          | -                         | 6                                                          | 34                        |
| Wood used for fuel, cords . . . . .                                                             | 10      | -                                                          | -                         | 10                                                         | 20                        |
| Materials used in repairs, annually, viz.                                                       |         |                                                            |                           |                                                            |                           |
| Iron, steel, screws, nails, tacks, lumber, cards, reeds, . . . . .                              | 40      | -                                                          | -                         | -                                                          | 40                        |

## DOCUMENT 11.—No. 31.

*Schedule of Capital invested, description and quantity of Goods annually made, the quantity of all Materials annually used, and other particulars relative to the Pittsgrove Factory, situated in the township of Pittsgrove, County of Salem, and State of New Jersey, for the year A. D. 1831, called Nelson's Factory.*

| Amount of capital invested, including the average annual amount of stock and goods on hand, .   | \$3,000 |   |   |       |       |
|-------------------------------------------------------------------------------------------------|---------|---|---|-------|-------|
| Number of persons employed, viz.                                                                |         |   |   |       |       |
| Two males under 16 years of age, . . . . .                                                      | 2       |   |   |       |       |
| Males 21 years of age and upwards, . . . . .                                                    | 3       |   |   |       |       |
| Number of persons in families, exclusive of the above, but maintained by their wages, . . . . . | 12      |   |   |       |       |
| Aggregate amount of wages, . . . . .                                                            | \$700   |   |   |       |       |
| Average amount of value of goods made, . . . . .                                                | \$1,200 |   |   |       |       |
| Narrow cloth, in yards, . . . . .                                                               | 700     | - | - | 700   | 700   |
| Satinet, in yards, . . . . .                                                                    | 600     | - | - | 600   | 400   |
| Number of sets of cards in use, . . . . .                                                       | 2       | - | - | -     | -     |
| Quantity of wool, in pounds, . . . . .                                                          | 2,000   | - | - | 2,000 | 1,000 |
| Cotton, for warps, in pounds, . . . . .                                                         | 100     | - | - | 100   | 30    |

DOCUMENT 11.—No. 31.—Continued.

|                                                                                           |       | Articles of the growth or production of foreign countries. |                            | Articles of the growth or production of the United States. |                            |
|-------------------------------------------------------------------------------------------|-------|------------------------------------------------------------|----------------------------|------------------------------------------------------------|----------------------------|
|                                                                                           |       | Whole average quantity used annually.                      | Aggregate am't in dollars. | Whole average quantity used annually.                      | Aggregate am't in dollars. |
| Indigo, pot and pearl ashes, madder, in pounds, .                                         | 50    | 50                                                         | 10                         |                                                            |                            |
| Logwood, fustic, camwood, and other dye woods, in pounds, .                               | 1,500 | 1,500                                                      | 35                         |                                                            |                            |
| Alum, vitriol, copperas, and other chemicals, in pounds, .                                | 300   | 300                                                        | 15                         |                                                            |                            |
| Glue and pates, in pounds, . . . . .                                                      | 100   | -                                                          | -                          | 100                                                        | 4                          |
| Sperm oil, in gallons, . . . . .                                                          | 32    | 32                                                         | 25                         |                                                            |                            |
| Sweet oil, in bottles, . . . . .                                                          | 6     | 6                                                          | 2                          |                                                            |                            |
| Hard soap, in pounds, . . . . .                                                           | 50    | -                                                          | -                          | 50                                                         | 4                          |
| Soft soap, in barrels, . . . . .                                                          | 6     | -                                                          | -                          | 6                                                          | 24                         |
| Wood used for fuel, cords, . . . . .                                                      | 8     | -                                                          | -                          | 8                                                          | 16                         |
| Materials used in repairs, annually, viz.                                                 |       |                                                            |                            |                                                            |                            |
| Iron, steel, screws, nails, tacks, lumber, cards, reeds, &c. .                            | 30    | -                                                          | -                          | -                                                          | 30                         |
| Number of barrels of flour used by the families immediately connected with the factory, . | 15    | -                                                          | -                          | 15                                                         | 75                         |

DOCUMENT 11.—No. 32.

*Schedule of Capital invested, description and quantity of Goods annually made, the quantity of all Materials used, and other particulars relative to the Woodstown Factory, situated in the township of Pilesgrove, County of Salem, State of New Jersey, for the year A. D. 1831.*

|                                                                                               |         |     |    |       |       |
|-----------------------------------------------------------------------------------------------|---------|-----|----|-------|-------|
| Amount of capital invested, including the average annual amount of stock and goods on hand, . | \$2,000 |     |    |       |       |
| Number of persons employed, viz.                                                              |         |     |    |       |       |
| One male under 16 years of age, . . . . .                                                     | 1       |     |    |       |       |
| Twenty-one and upwards, . . . . .                                                             | 2       |     |    |       |       |
| Aggregate amount of wages, . . . . .                                                          | \$400   |     |    |       |       |
| Average amount of value of goods made, .                                                      | \$1,020 |     |    |       |       |
| Narrow cloth, in yards, . . . . .                                                             | 500     | -   | -  | 500   | 500   |
| Satinets, in yards, . . . . .                                                                 | 300     | -   | -  | 300   | 225   |
| Flannels, in yards, . . . . .                                                                 | 500     | -   | -  | 500   | 300   |
| Number of sets of cards in use, . . . . .                                                     | 1       |     |    |       |       |
| Quantity of wool, in pounds, . . . . .                                                        | 2,500   | -   | -  | 2,500 | 820   |
| Cotton for warps, . . . . .                                                                   | 75      | -   | -  | 75    | 22 50 |
| Indigo, pot and pearl ash, . . . . .                                                          | 14      | 14  | 5  |       |       |
| Logwood, fustic, camwood, and other dye wood, .                                               | 475     | 475 | 18 |       |       |
| Alum, vitriol, copperas, &c., . . . . .                                                       | -       | 50  | 4  |       |       |
| Sperm oil, in gallons, . . . . .                                                              | 13      | 13  | 13 |       |       |
| Sweet oil, in bottles, . . . . .                                                              | 4       | 4   | 2  |       |       |
| Soft soap, in barrels, . . . . .                                                              | 4       | -   | -  | 4     | 16    |
| Wood used for fuel, cords, . . . . .                                                          | 6       | -   | -  | 6     | 15    |
| Materials used in repairs, viz.                                                               |         |     |    |       |       |
| Iron, steel, screws, nails, lumber, cards, reeds, &c. .                                       | 20      | -   | -  | -     | 20    |

## DOCUMENT 11.—No. 33.

## WOOLLEN MANUFACTORIES in the State of New Jersey.

|                   | County.    | Established. | Capital invested. | Amount of materials and wages. | Amount annually manufactured. | Amount in value. | Amount of raw materials. | Value. | Number of men. | Wages. | Boys.             | Wages. | Girls. | Wages. | Hours. | Horses. | Credit. |                              |
|-------------------|------------|--------------|-------------------|--------------------------------|-------------------------------|------------------|--------------------------|--------|----------------|--------|-------------------|--------|--------|--------|--------|---------|---------|------------------------------|
| John Morrow       | Bergen     | 1825         | Indv              | Dolls.                         | Yards.                        | Dolls.           | lbs.                     | Dolls. |                | Dolls. |                   |        |        |        |        |         |         |                              |
| J. Barrow & Sons  | Paterson   | 1831         | Cop.              | 20,000                         | 120,000                       | 68,400           | 75,000                   | 41,250 | 40             | 5      | 18                | 1.50   | 16     | 2.50   | -      | 3       | 8       |                              |
| Wm. A. Bowne      | Essex      | 1828         | Indv              | 24,000                         | 150,000                       | 90,000           | 90,000                   | 49,500 | 42             | 5      | 20                | 1.25   | 26     | 2.50   | 12     | 3       | 6       |                              |
| I. Wild           | Essex      | 1823         | do                | 60,000                         | -                             | -                | -                        | -      | 90             | men,   | women & children. | -      | -      | -      | -      | -       | -       |                              |
| 3 small factories | Essex      | 1824         | do                | 10,000                         | -                             | -                | -                        | -      | -              | -      | -                 | -      | -      | -      | -      | -       | -       | No returns.                  |
| John Hight        | Essex      | 1823         | Joint             | 150,000                        | -                             | -                | -                        | -      | -              | -      | -                 | -      | -      | -      | -      | -       | -       | No returns.                  |
| N. South Orange   | Essex      | 1815         | -                 | 25,000                         | -                             | -                | -                        | -      | -              | -      | -                 | -      | -      | -      | -      | -       | -       | No returns.                  |
| Hanover           | Morris     | -            | -                 | 8,000                          | -                             | -                | -                        | -      | -              | -      | -                 | -      | -      | -      | -      | -       | -       | No returns.                  |
| Baskingridge      | Somerset   | -            | -                 | 600                            | -                             | -                | -                        | -      | -              | -      | -                 | -      | -      | -      | -      | -       | -       | No returns.                  |
| Shaw              | Sussex     | -            | -                 | 800                            | -                             | -                | -                        | -      | -              | -      | -                 | -      | -      | -      | -      | -       | -       | No returns.                  |
| Ab. Van Riper     | Bergen     | 1830         | -                 | 1,200                          | -                             | -                | -                        | -      | -              | -      | -                 | -      | -      | -      | -      | -       | -       | Declines answering.          |
| Jas. McDonald     | Bergen     | 1830         | -                 | 6,000                          | -                             | -                | -                        | -      | -              | -      | -                 | -      | -      | -      | -      | -       | -       | No returns.                  |
| Benjamin Force    | Bergen     | 1822         | -                 | 6,000                          | -                             | -                | -                        | -      | -              | -      | -                 | -      | -      | -      | -      | -       | -       | No returns.                  |
| Crane             | Essex      | 1824         | -                 | 7,000                          | -                             | -                | -                        | -      | -              | -      | -                 | -      | -      | -      | -      | -       | -       | No returns.                  |
| 4 small factories | Salem      | -            | -                 | 12,000                         | -                             | -                | -                        | -      | -              | -      | -                 | -      | -      | -      | -      | -       | -       | No returns.                  |
| Houston & Green   | Burlington | -            | -                 | -                              | -                             | -                | -                        | -      | -              | -      | -                 | -      | -      | -      | -      | -       | -       | No returns.                  |
| Newkirk & Co.     | Gloucester | -            | -                 | 60,000                         | -                             | -                | -                        | -      | -              | -      | -                 | -      | -      | -      | -      | -       | -       | No returns.                  |
| Robt. Thompson    | Bergen     | 1831         | Indv              | 100,000                        | -                             | -                | -                        | -      | 6              | -      | 1                 | -      | 1      | -      | 10     | -       | -       | No returns.                  |
|                   |            |              |                   | 3,000                          | 15,000                        | 16,700           | 23,920                   | 12,064 | 6              | 6      | 1                 | 2      | 1      | 2      | 10     | -       | -       | Woolen carpeting, ingrained. |
|                   |            |              |                   | 528,600                        |                               |                  |                          |        |                |        |                   |        |        |        |        |         |         |                              |

## DOCUMENT 11.—No. 34.

NEW PROSPECT, N. J. April 28, 1832.

SIR: In answer to your circular of the 7th February, requesting a statement of the manufactures of the State of New Jersey, I beg leave to present you with the following facts as it respects the manufactory of iron in the eastern section of the State:

1st. There are now in operation 100 forge fires, that make annually 2,750 tons of bloomed bar iron, making an average of 25 tons per each forge fire.

The amount of capital-invested embraces the following items:

|                                                                                                                                                                                                                                         |                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1st. The cost of erecting 110 forge fires, at an average expense, including machinery, dams, coal houses, &c. of \$1,500 each                                                                                                           | \$ 165,000          |
| 2d. Amount invested in wood land, allowing each fire to require 1,000 acres for its support, in producing its proportion of the 2,750 tons, equal to 110,000 acres, at an average price (the water privilege included) at \$10 per acre | 1,100,000           |
| 3d. The expense of teams, tools, &c. for each forge fire, at \$ 500                                                                                                                                                                     | 55,000              |
| 4th. Cost of dwelling-houses for the accommodation of workmen, allowing to each fire five houses, at \$ 200 each                                                                                                                        | 110,000             |
| 5th. Amount of floating capital necessary to conduct the business, \$500 to each fire                                                                                                                                                   | 55,000              |
|                                                                                                                                                                                                                                         | <u>\$ 1,485,000</u> |

2d. The number of workmen employed in the business, allowing each fire to require two forge men, two colliers, two cartmen, one coal stocker, five wood choppers, and a carpenter and blacksmith equal to one hand, making in all 13 hands to a fire, is 1,430 men, who, with their families of five persons each, make the number of souls dependant on the works 7,150.

3d. The facilities for extending the business are ample; there are now in operation, as appears by the before mentioned statement, 110 forge fires, producing 25 tons each per annum; were sufficient protection continued, it is presumed that these fires would be made to produce 40 tons each per annum in place of the present quantity, and that a number more of equal ability would soon be put in operation, all of which could be fully supported with the materials used in the manufactory.

4th. The results of the business and details of the manufacturing a ton of iron, taken from the most intelligent and accurate of the manufacturers, and after comparing various statements, the following may be considered as the real cost of producing a ton of bloomed bar iron:

|                                                            |                 |
|------------------------------------------------------------|-----------------|
| Three tons of ore, at an average price of \$ 5 per ton, is | \$ 15 00        |
| Ten loads of coal, at \$ 4                                 | 40 00           |
| Small repairs of forge, at \$ 1 50 per ton                 | 1 50            |
| Stocking ten loads of coal, at 12½ cents per load          | 1 25            |
| Wages of workmen for making one ton                        | 16 50           |
| Average cost of cartage and freight—one ton to New York    | 5 00            |
|                                                            | <u>\$ 79 25</u> |

The average price in New York, for most of the time during the last fourteen years, has not been greater than it now is, from \$ 70 to \$ 80 per ton.

In the above statement of cost in making a ton of iron, it is assumed that the coal and ore are purchased by the manufacturer at the current prices. If, however, the coals are made upon his own premises, and the ore raised from his own mine, the following estimate will show the result:

|                                                                     |                 |
|---------------------------------------------------------------------|-----------------|
| Cost of cutting 30 cords of wood for one ton, at 37½ cents per cord | \$ 7 50         |
| Coaling ten loads of coal, at \$ 1 50                               | 15 00           |
| Carting ten loads of coal, at \$ 1 00                               | 10 00           |
| Stocking ten loads of coal, at 12½ cents                            | 1 25            |
| Raising three tons of ore, at \$ 1 50                               | 4 50            |
| Carting three tons of ore, at \$ 1 00                               | 3 00            |
| Making one ton of iron (wages)                                      | 16 50           |
| Small repairs of forge per ton                                      | 1 50            |
| Cartage and freight of one ton iron to New York                     | 5 00            |
|                                                                     | <u>\$ 64 25</u> |

Should an allowance be made in the last estimate for the value of the standing wood, and in making coal, of the ore in the mine, the following sum should be added to the amount of the estimate—20 cords wood standing, at 50 cents

Three tons of ore in the mine, at \$ 1 50

\$ 78 75



## DOCUMENT 11.—No. 34—Continued.

You will perceive that the foregoing estimate includes no account of interest of capital invested, decay of works, expense of managing, taxes, &c.; neither is there any provision made for risks or losses, although the business is exposed to both.

You will also perceive, that in this statement, no estimate has been submitted of the amount of capital invested in mines, or the cost of opening them, from the impossibility of arriving at any satisfactory result. It can only be stated that there are 50 iron mines in this district already opened; 15 of which are at present worked; that the quantity of good ore is inexhaustible. The above statement is strictly confined to facts as connected with the manufacture of bloomed bar iron.

Of furnaces, there are several, but none in blast.

Of rolling mills, there are the following: as

|                                                                                                |      |       |
|------------------------------------------------------------------------------------------------|------|-------|
| 1st. Dover, which converts into rolled iron annually, of the iron manufactured in the district | tons | 1,000 |
| 2d. Rockaway, which rolls annually, of the iron of the surrounding country                     |      | 283   |
| 3d. Booneton, which rolls from scrap iron from England, and pig iron, after the English method |      | 968   |

Tons 2,250

Giving at those three works 447 men: according to the common calculation there are two thousand souls dependant on those rolling mills.

There are 110 forge-fires distributed through East New Jersey, included in a district of fifty miles square; their location is amidst a rocky, mountainous region, incapable of being appropriated to agricultural pursuits, but containing inexhaustible mines of the best iron ore. The lakes in this region of magnetic iron, furnishing more hydraulic resource than any other country of the same extent. The proprietors of the works do not fear a competition with the iron of Russia or Sweden, as it must ever be limited, and is of an excellent quality. It is the inferior rolled iron of England that operates to the injury of the iron of this country, and should the inferior iron be permitted to compete with the superior hammered iron of this country, the works most accessible to the sea-ports must stop all operation, and the whole region dependant on the making of iron, in a great measure, become depopulated; and once destroyed, no future legislation would be able to restore to active operation the inexhaustible, though dormant resources of the richest mineralogical region in the world.

All which is respectfully submitted.

I am, respectfully,

Your obedient servant,

CHARLES KINSEY.

The Hon. LOUIS McLANE,

Secretary of the Treasury of the United States.

## DOCUMENT 11.—No. 35.

*Joseph Jackson & Son's Statement of Iron made and bought at their Works in Rockaway, N. J.*

An account of Iron made by Joseph Jackson & Son, at their Forge, consisting of three fires, situate at Rockaway, Morris county, New Jersey, since 3d March, 1826, to 3d March, 1831. Whole amount made, 383 tons; making an average of 76 tons 12 cwt. per year, as stated below, with the value per ton each year.

| From March, 1826 to 1827. |      |       | From March, 1827, to 1828. |      |       | From March, 1828, to 1829. |      |       | From March, 1829, to 1830. |      |       | From March, 1830, to 1831. |      |       | Made since the 3d Mar. 1831, to 15th Oct. 1831. |      |       |
|---------------------------|------|-------|----------------------------|------|-------|----------------------------|------|-------|----------------------------|------|-------|----------------------------|------|-------|-------------------------------------------------|------|-------|
| Tons.                     | Cwt. | Value | Tons.                      | Cwt. | Value | Tons.                      | Cwt. | Value | Tons.                      | Cwt. | Value | Tons.                      | Cwt. | Value | Tons.                                           | Cwt. | Value |
| 76                        | 12   | \$84  | 76                         | 12   | \$76  | 76                         | 12   | \$74  | 76                         | 12   | \$73  | 76                         | 12   | \$68  | 66                                              | 10   | \$75  |

## DOCUMENT 11.—No. 35—Continued.

An account of Iron bought by Joseph Jackson & Son, since the 7th March, 1826, to 7th March, 1831, and rolled at their Rolling Mill, in Rockaway, Morris county, New Jersey, showing the amount bought in each year, with the value per ton.

| From March, 1826, to 1827. |      |       | From March, 1827, to 1828. |      |       | From March, 1828, to 1829. |      |       | From March, 1829, to 1830. |      |       | From March, 1830, to 1831. |      |       | Since March, 1831, to 15th Oct. 1831. |      |       |
|----------------------------|------|-------|----------------------------|------|-------|----------------------------|------|-------|----------------------------|------|-------|----------------------------|------|-------|---------------------------------------|------|-------|
| Tons.                      | Cwt. | Value | Tons.                      | Cwt. | Value | Tons.                      | Cwt. | Value | Tons.                      | Cwt. | Value | Tons.                      | Cwt. | Value | Tons.                                 | Cwt. | Value |
| 250                        | 6    | \$84  | 239                        | -    | \$76  | 187                        | -    | \$74  | 146                        | -    | \$73  | 185                        | -    | \$68  | 173                                   | 12   | \$75  |

The number of tons of iron rolled at the above works, in each year, since March, 1826, to March, 1831, is as follows, viz. from March, 1826, to 1827, 356 tons 18 cwt.; to 1828, 315 tons 12 cwt.; to 1829, 263 tons 12 cwt.; to 1830, 222 tons 12 cwt.; to 1831, 261 tons 12 cwt.; since March, 1831, to Oct. 15, 1831, 240 tons. Since March 1, 1830, to Oct. 15, 1831, rolled at the above mill 129½ tons of American steel.

Account of number of Hands employed by Joseph Jackson & Son, at their works, and of the number dependant on the works for a living, not actively employed.

| Rolling mill hands. |       |        | Bloomers. | Colliers. | Misners. | Blacksmiths. | Carpenters. | Miller and Sawyer. | Boatmen. |       | Others dependant on the works for living, of all ages and sexes.                             |
|---------------------|-------|--------|-----------|-----------|----------|--------------|-------------|--------------------|----------|-------|----------------------------------------------------------------------------------------------|
| Men.                | Boys. | Total. | Men.      | Men.      | Men.     | Men.         | Men.        | Men.               | Men.     | Boys. |                                                                                              |
| 9                   | 4     | 13     | 6         | 12        | 4        | 2            | 2           | 2                  | 2        | 1     | 65—besides 6 men and 4 boys employed about the works, making a total of 119 souls dependant. |

Teams owned by J. J. & Son: one 4 mule team, two 2 horse teams, two yoke of oxen, and one horse for boating. Teams employed and not owned, carting coal, ore, and iron: one 4 mule team, one 2 horse team, and one yoke of oxen.

April 18, 1832.

JOSEPH JACKSON & SON,  
Per HENRY BEACH.

|                                              |   |   |   |   |   |            |
|----------------------------------------------|---|---|---|---|---|------------|
| Joseph Jackson & Son—Mills in 1831           | - | - | - | - | - | \$2,600 57 |
| 1830                                         | - | - | - | - | - | 3,368 57   |
| 1829                                         | - | - | - | - | - | 2,001 00   |
| 1828                                         | - | - | - | - | - | 3,374 00   |
| 1827                                         | - | - | - | - | - | 9,704 35   |
| Years, 5                                     | - | - | - | - | - | 21,038 49  |
| Average of 5 years                           | - | - | - | - | - | 4,207 69   |
| On three forges—bloomeries in Rockaway, 1826 | - | - | - | - | - | \$1,396 00 |
| 1827                                         | - | - | - | - | - | 1,024 00   |
| from 1827 to 1831                            | - | - | - | - | - | 3,255 36   |
|                                              | - | - | - | - | - | 5,675 36   |
| Average of 5 years, from 1826 to 1831        | - | - | - | - | - | \$1,135 07 |

## DOCUMENT 11.—No. 35—Continued.

## CAPITAL EMPLOYED.

We have a concern in four iron mines, the capital of which is valued at \$26,000  
 Average price of ore at the mines is \$3 per ton, and if necessary, will yield 5,000  
 tons per annum, the net profit on which will average, at 50 cents 2,500  
 1,883 acres of land, including farm lands, and where the works stand, valued at 75,390

We use 200 tons of bituminous coal, and 150 tons of anthracite coal, and about 84,000  
 bushels of charcoal per annum.

Can roll 800 tons of iron and steel per annum into all the various sizes of round, square,  
 and flat iron, except sheet iron.

## DOCUMENT 11.—No. 36.

*William Jackson's Statement of Iron Manufactory, Rockaway, Morris County, New Jersey.*

| QUESTIONS.                                                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                                | 1. New Jersey, Morris and Bergen counties.                                                                                                                                                               |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                     | 2. Three forge fires; water power.                                                                                                                                                                       |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                                  | 3. One in Morris county, about 70 years since, and two in Bergen county, put in operation in 1826.<br>4. \$50,000.                                                                                       |
| 4. Capital invested in ground and buildings, and water power and in machinery?                                                                                                                                                                                                                           | 5. About \$8,000 per annum.                                                                                                                                                                              |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                          | 6. No profit for the last 14 years, but a loss; not having received interest on capital invested.                                                                                                        |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory: distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of the profit upon that portion which is not borrowed? | 7. Loss of interest on capital invested, owing to foreign competition, especially the English rolled iron, which is so far inferior in quality, and for want of a proper construction of the tariff law. |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                                  | 9. About 100 tons of bloomed bar iron, which has not averaged \$80 per ton for the last 14 years.                                                                                                        |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                    | 10. 80,000 bushels charcoal, and 300 tons of ore, worth \$5,500; the balance, provisions and wages paid, amounting in all to \$8,000 per annum; wholly domestic.                                         |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                          | 11. Russia and Swedes refined iron, (the nearest resemblance;) average price about \$90 per ton.                                                                                                         |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                          | 12. About 50 able-bodied men at an average of \$1 per day.                                                                                                                                               |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                        | 13. Forgemmen, 15 hours; colliers, day and night; others, 12 hours; forgemmen, 10 months; colliers, 9 months; others, the year round.                                                                    |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                         | 15. 20 horses, mules, and oxen.                                                                                                                                                                          |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                          |                                                                                                                                                                                                          |

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                               | 16. New York city, about 36 miles.                                                                                                                                                                                |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale; and to what extent?                                                                                                                                               | 17. Yes; from all parts of the world.                                                                                                                                                                             |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                | 18. In the United States.                                                                                                                                                                                         |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                | 19. No.                                                                                                                                                                                                           |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                              | 20. Generally at four months.                                                                                                                                                                                     |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?             | 21. The price of labor has not decreased in proportion to the price of the iron.                                                                                                                                  |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                    | 22. From 70 to \$80 per ton.                                                                                                                                                                                      |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                              | 23. Only prohibit the English rolled iron, and I have no objection to the Russia and Swedes iron being admitted free of duty, because it is a good article.                                                       |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                        | 24. All iron manufactured in whole or in part <i>by rolling</i> , ought to pay \$37½ per ton, or be prohibited, as the greatest fraud is practised upon the rolled iron. No hammered bar iron comes from England. |
| 25. What has been the rate of your profits, annually, for the last three years?                                                                                                                                                                                         | 25. Nothing.                                                                                                                                                                                                      |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                            | 26. See answer to the 10th query.                                                                                                                                                                                 |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                        | 27. See 10th.                                                                                                                                                                                                     |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                    | 28. See Report of the Tariff Convention in New York, in October last.                                                                                                                                             |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. <i>Certain death</i> to the business.                                                                                                                                                                         |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. I should have none.                                                                                                                                                                                           |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                           | 31. No; this portion of the State being peculiarly adapted to the manufacture of iron.                                                                                                                            |

## DOCUMENT 11.—No. 36—Continued.

| QUESTIONS.                                                                                   | ANSWERS.                                                            |
|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 33. Amount of capital, and what proportion the borrowed capital bears to that which is real? | 33. \$50,000 inherited, otherwise I should have stopped long since. |
| 37. Proportion which the production by the American manufacturers bears to the consumption?  | 37. See Report of the Tariff Convention.                            |

Respectfully, your obedient servant,

WILLIAM JACKSON.

ROCKAWAY, N. J., 25th April, 1832.

TO CHARLES KINSEY, Esq.

## DOCUMENT 11.—No. 37.

*Green and Wetmore's Statement of Iron, Boonton, Morris County.*

| QUESTIONS.                                                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                                | 1. At Boonton, Morris county, New Jersey.                                                                                                                                                                                                                                                                                                                           |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                     | 2. Iron; water power.                                                                                                                                                                                                                                                                                                                                               |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                                  | 3. Commenced 1829; ready for operation in the fall of 1831; a chartered company.                                                                                                                                                                                                                                                                                    |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                          | 4. Now invested, \$150,000, and will require \$100,000 more to complete the works besides loose capital to conduct the business.                                                                                                                                                                                                                                    |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory: distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of the profit upon that portion which is not borrowed? | 6. 10th April, 1832; no profit yet, because not fairly in operation.                                                                                                                                                                                                                                                                                                |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                           | 8. Have no other employed.                                                                                                                                                                                                                                                                                                                                          |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                    | 9. 160 tons chain iron, pronounced by Com. Hull better than ever made before in this country, value 4½ cents; we now make better at 6½ cents per lb.; also, 450 tons round and square rods, superior to any ever made in the United States, value \$115 per ton; also, 213 tons sheets superior, value 140 to \$155, and 145 tons boiler iron, value \$160 per ton. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                          | 10. Three-fourths of the materials will be American pig iron, and ¼ of scrap iron.                                                                                                                                                                                                                                                                                  |
| 13. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                                                                         | 12. 200 men, \$2 per day; 20 boys, 3s. 6d.                                                                                                                                                                                                                                                                                                                          |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                | 16. All sent to New York.                                                                                                                                                                                                                                                                                                                                           |

DOCUMENT 11.—No. 37—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?</p> <p>25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually?</p> <p>27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?</p> <p>29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?</p> <p>30. If it would cause you to abandon your business, in what way would you employ your capital?</p> <p>32. Are not the manufactures of salt and iron, remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?</p> | <p>23. We would say let the duty remain where it is; if increased, the competition would naturally increase; if reduced, we cannot make it a business worth pursuing; but if it remains as it is, we can get a fair per centage on our capital, and no more.</p> <p>25. No dividend yet declared, not fairly in operation.</p> <p>27. Our location is such, that we are entirely dependant upon the surrounding country for the necessaries of life, and the farmers hereabouts are not a little benefited by it.</p> <p>29. We could not make it profitable, as we could not reduce the workmen's wages to correspond with the decline that would take place in the prices of iron.</p> <p>30. If such a reduction should take place, we should have no capital, as it is now all invested in machinery, buildings, &amp;c., which would decline in the same ratio with the manufactured article.</p> <p>32. There is no demand for the manufactured article at the manufactory: all sent to New York.</p> |

DOCUMENT 11.—No. 38.

*M'Farland and Ayres' Statement of Iron, Dover, Morris County.*

| QUESTIONS.                                                                                                                                                                                                                  | ANSWERS.                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. State and county in which the manufactory is situated?</p> <p>2. Kind or description of the manufactory, and whether water, steam, or other power?</p> <p>3. When established; and whether a joint stock concern?</p> | <p>1. Morris county, State of New Jersey.</p> <p>2. Three mills for rolling and slitting iron, one chain cable shop, one cupola and air furnace, and two forges; water power.</p> <p>3. 1792, 1793, 1800, 1822, 1826, 1823, 1830; proprietors incorporated, but act of incorporation not acted on.</p> |

## DOCUMENT 11.—No. 38—Continued.

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                       | 4. One hundred thousand dollars.                                                                                                                                                                                |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                      | 5. Cash paid for materials and labor, ninety-five thousand dollars.                                                                                                                                             |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. Castings in 1828, 7 ton, in 1829, 65 ton, in 1830, 237 ton; bar iron in 1828, 97 ton, in 1829, 105 ton, in 1830, 128 ton; rolled from the bar into different sizes during same years, 651, 821, and 817 ton. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?       | 10. 1,000 tons American bar iron, from \$70 to \$90 per ton, annually.                                                                                                                                          |
| 12. Number of men, women and children employed, and average wages of each class?                                                      | 12. 200 men, average wages 8s. per day.                                                                                                                                                                         |
| 13. How many hours a day employed? and what portion of the year?                                                                      | 13. 10 hours per day, and employed all the year.                                                                                                                                                                |
| 14. Rate of wages of similar classes otherwise employed, in the same State and county, in other States, and in foreign countries?     | 14. 6s. per day.                                                                                                                                                                                                |
| 15. Number of horses or other animals employed?                                                                                       | 15. Sixty horses, mules, and oxen.                                                                                                                                                                              |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 16. 35 miles, to New York.                                                                                                                                                                                      |

## DOCUMENT 11.—No. 30.

*From Manufacturers, State of New Jersey.*

| County.              | Established. | Chart'd | Capital invested. | Amount of materials & wages. | Amount annually manu-<br>factured. | Amount in value. | Am't of raw materials. | Value.   | Number of men. | Wages. | Boys. | Wages.  | Hours. | Horses. | Drivers. | Credit. |
|----------------------|--------------|---------|-------------------|------------------------------|------------------------------------|------------------|------------------------|----------|----------------|--------|-------|---------|--------|---------|----------|---------|
| Green & Wetmore -    | 1831         | Chart'd | \$150,000         | -                            | 968<br>tons.                       | \$122,399        | -                      | -        | 200            | \$12   | 20    | \$8 68½ | 10     | 60      | -        | 4 mos.  |
| McFarland*           | 1830         | do      | 100,000           | 95,000                       | 1,000                              | -                | -                      | \$80,000 | 200            | 6      | -     | -       | 12     | 20      | -        | -       |
| Wm. Jackson          | 1762         | Indiv.  | 50,000            | 8,000                        | 100                                | 8,000            | -                      | 5,500    | 50             | 6      | -     | -       | -      | 21      | -        | -       |
| Jos. Jackson & Son - | -            | Cop.    | 101,000           | -                            | 282                                | -                | -                      | -        | 47             | -      | -     | -       | -      | -       | -        | -       |
|                      |              |         | \$401,000         |                              |                                    |                  |                        |          |                |        |       |         |        |         |          |         |

\* With mules and oxen.



## DOCUMENT 11.—No. 40.

*Iron Manufactures in West Jersey.*

PHILADELPHIA, April 26, 1832.

Annexed you have our replies to the queries proposed in your circular under date March 6th, last, which we had the honor to receive from you.

Very respectfully, &c.,

BENJAMIN & DAVID REEVES.

CHARLES KINSEY, Esq.

## ANSWERS TO QUERIES.

1. Cumberland county, State of New Jersey.
2. Rolling mill, cut-nail manufactory, and foundry; water power employed.
3. Established in 1815, jointly, by Benjamin Reeves and David Reeves.
4. At this time the capital invested, as above, is 90,000 dollars.
5. Materials and wages paid for, in cash, amount yearly to 130,000 dollars.
6. There has been no profit realized on that portion of the capital which was borrowed, after providing for the interest.
7. Production, when greater than consumption, diminishes profits, and vice versa.
8. Cannot answer this query in its general scope.
9. In the year 1816 the articles manufactured were 100 tons of nails, and 100 tons of hoop and band iron. The price of nails from January to June averaged 11 cents per pound, and from June to December 8½ cents per pound; the hoop and band iron averaged, from January to June, 170 dollars per ton, and from June to December 140 dollars per ton. Since when the manufacture has been increasing, annually, to its present extent, which was, in the year 1831, 1,100 tons of nails, and 400 tons round, square, and hoop iron, 130 tons castings. The average price of the nails 5 a 37 cts. per pound, rolled iron 100 dollars per ton, and castings 55 dollars per ton.
10.

|                                       |   |   |   |   |   |   |          |
|---------------------------------------|---|---|---|---|---|---|----------|
| 1,200 tons bloom iron,                | - | - | - | - | - | - | \$80,400 |
| 450 tons wrought scraps,              | - | - | - | - | - | - | 14,850   |
| 40,000 bushels bituminous coal,       | - | - | - | - | - | - | 8,800    |
| 300 tons anthracite coal,             | - | - | - | - | - | - | 1,800    |
| 150 tons cast metal,                  | - | - | - | - | - | - | 3,300    |
| wood for kegs,                        | - | - | - | - | - | - | 2,000    |
| steel and other materials for repair, | - | - | - | - | - | - | 3,000    |
- All domestic, except steel and grindstones.
11. We do not possess the necessary information to answer this query.
12. 82 men, average 1 dollar per day; 28 boys, 50-cents per day.
13. 12 hours per day; average 300 days per year.
15. None—the transportation is by water.
16. Very little sold at the manufactory; chiefly sent 100 miles to Philadelphia, by water, and, from thence, to most of the important southern markets of the United States.
17. There are no cut nails imported; round and square, bolt iron and hoop iron is imported from England, and comes in competition with that description of our manufacture: within the last 12 months the imported has interfered but little.
18. Throughout our southern seaboard, extending far into the interior; up the Mississippi and Ohio as far as Louisville, and, in some instances, to Cincinnati.
19. Nails are exported to the West Indies and South America in small quantities.
20. Nails are sold on a credit of 6 months, and rolled iron and castings at 4 months, either of which is seldom bartered.
21. The cost, to the manufacturer, has fluctuated by changes of prices of the materials, which, on the average, has diminished since 1816; there has also been a decrease in the price of labor, and the same labor has become, and is still growing more efficient from greater experience. The cost has also diminished, and continues to diminish by progressive improvement of the general economy in the operations, but how much in each year cannot be distinctly stated.
22. In 1816 nails were sold at 11 cents to 8½ cts. per pound; since when, the price has fluctuated between the latter, say 8½ cts. to 5 cts., and were sold at the latter price in the early part of 1831.
23. We cannot say what would be the lowest rate of duty that would protect us from competition of the cheap machinery, labor, and capital of England, and especially against

the power of her great capital, *directed by policy*, to break down our establishments by *sacrifices* to an amount that would ruin our proprietors, thus leaving the business in her hands when her losses would be soon repaired by the monopoly thus achieved. The domestic manufacture of nails cannot be made cheaper by foreign competition, unless it bring about a general reduction of the price of labor in this country.

24. No change in levying or collecting the duty is necessary.

25. The answers to this query may be injurious to our concern; we therefore omit them.

26. The proportions of the cost of raw materials to that of the labor employed, are as four of the former to one of the latter, nearly.

27. The labor is all paid for in cash; therefore, no account of the agricultural and other domestic products consumed by the laborers has been kept.

28. From the best information we possess, the quantity of nails made in the United States is about 25,000 tons, and in this State about 2,000 tons: we cannot state the quantity of iron rolled.

29. If the duty on nails and iron be reduced to 12½ per cent., no protection would be left to the former; which would be imported at the same rate of duty as the iron of which they would be made. The advantages of cheap *foreign* machinery, labor, and capital, would compel us to abandon the business.

30. Mercantile operations now afford as profitable employment *as our business*; but what effect an abandonment of manufacturing would have on the profits of other branches of industry in this country we do not foresee; therefore, cannot say in what way our capital and labor could be profitably employed.

31. Every business that is now pursued, *with success*, affords better profits than ours would do were the duties reduced to 12½ per cent. on all imports.

32. Some of these are so remote from points of importation as to require no protection: these, however, bear but a small proportion to the whole. The extent of the circle will increase as the establishments may be remote from the points of importation.

34. Domestic competition has kept the profits on the amount of the business and capital invested below 6 per cent.: therefore, any reduction of duty that would reduce profits, by foreign competition, would endanger our business, and, consequently, our estates; any reduction of duty that would not effect a reduction of profits, could not effect the interest of either the manufacturer or consumer, and would, therefore, be nominal.

37. The whole consumption is supplied by the domestic manufacture of nails; more than half the iron of which they are made is imported from Russia and Sweden.

In addition to the cost of materials, labor, &c., enumerated above, there are numerous other items of expense incident to the business; such as transportation from the place of manufacture to the various markets, where the sales are effected; insurances, commissions, and incidental charges on selling, &c.

PHILADELPHIA, April 27th, 1832.

SIR: According to your request, I have obtained a gross statement of the iron works in West Jersey, including Monmouth county, as obtained for the New York Convention. This statement I obtained from B. B. Howel, esq., who has the original documents in his possession.

11 furnaces, making 1,542 tons of pigs, 6,486 of castings, annually; and 11 forges, making 1,652 tons bar and bloom iron.

Very respectfully, &c.,

BENJAMIN REEVES.

CHARLES KINSEY, Esq.

## DOCUMENT 12.—No. 1.

## REPORT OF CHARLES KINSEY TO THE SECRETARY OF THE TREASURY.

*Statement of Iron, Cotton, and Woollen Manufactories in the State of New Jersey.*

New Passaic, May 1st, 1832.

Sir: The following is the statements of the products of iron, wool, and cotton, as far as it has been possible to procure.

Statement of iron, as it respects the eastern section of the State, to wit:

Now in operation 110 forge fires.

|                                                      |           |
|------------------------------------------------------|-----------|
| Capital invested in works,                           | \$165,000 |
| In woodlands and water power,                        | 1,100,000 |
| In teams and tools,                                  | 55,000    |
| In dwelling-houses, &c.,                             | 110,000   |
| Amount of capital necessary to conduct the business, | 55,000    |

\$1,485,000

Number of tons annually produced, 2,750, valued at \$75 per ton, 2,062,250

Number of workmen employed, 1,430, at \$6 per week, 427,000

Number of persons dependant, 7,150.

The following is also the statement of the woollen manufactures in the State:

Amount of capital employed, \$425,000

Number of persons employed, 1,331,

Supported by their wages, 1,406,

Amount of wages, 155,831

Average value of goods, 728,000

Articles of American production, 337,834 } 476,317

Articles of foreign growth, 138,493 }

Interest, agency, insurance, &c., not calculated, but not less than ten per cent.

In making a return of the cotton, from the incorrect state of the returns, it is impossible to arrive at any certainty further than the amount of capital employed, the amount of which has been obtained from the proprietors, principally. Many are new establishments, and have had no settlement of their concern. The amount of the capital, I have no doubt, is correct.

Amount of the number of mills is 53.

Capital invested in buildings, water rights, and machinery, \$1,893,500

John Travers and Company own the only hemp, canvass, and cotton bagging factory in the State. Capital invested 170,000

Wages and raw materials, 117,000

Raw material 600,000 lbs. flax, at 10½ cents, 63,000 }

Wages, 54,000 } 117,000

All which is respectfully submitted.

I am, respectfully,

Your obedient servant,

CHARLES KINSEY.

The Honorable LOUIS McLANE,

Secretary of the Treasury of the United States.

# MANUFACTURES.

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## RETURNS FROM THE STATE OF PENNSYLVANIA.

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### DOCUMENT 13.—No. 1.

PHILADELPHIA, *May 4th*, 1832.

SIR: The undersigned, appointed commissioners, by the Secretary of the Treasury, to collect the information called for by two resolutions of the House of Representatives, of the 19th January last, in regard to the State of Pennsylvania, respectfully report:

That, on the 15th February last, they severally received the letters of the Secretary of the Treasury, a copy of which is annexed; and that on the next day one of them, C. C. Biddle, in answer thereto, submitted to the department, for its approbation, a plan for obtaining the information called for, embracing the appointment of A. M. Prevost, as the assistant, and, at the same time, forwarded copies of circulars proposed to be issued.

Under the authority of the Secretary's appointment, the two commissioners, believing that the inquiries would be best promoted by uniting their efforts, determined, in conjunction, to carry into effect the plan sanctioned by the department, and, accordingly, authorized Mr. Prevost, as their agent, to frame the annexed new circulars. These were extensively circulated, and due diligence was used to procure as much pertinent information as was practicable by personal inquiries of all the principal manufacturers in this neighborhood.

After pursuing these inquiries for several days longer in Philadelphia, and its immediate vicinity, the commissioners deemed it absolutely necessary that Mr. Prevost should proceed to the seat of the State Government, and also visit the principal manufacturing counties of the eastern district, so that, by personal examination, every possible effort might be made to fulfil the requisitions of the department.

On the 18th April, the Secretary's letter, terminating the functions of Mr. Prevost, the only agent they had employed, was received; and it became necessary, in conformity with the instructions of the department, to digest and report the result of their united labors.

The nature and extent of the difficulties the commissioners have met in obtaining the information called for by the resolutions of the House of Representatives will appear by Mr. Prevost's report. Their exertions being suspended, they have to regret, as well as their assistant, the very imperfect character of the information herewith submitted to the department; but, should it be deemed expedient to pursue these inquiries further, in order to obtain complete returns of all the manufacturing establishments, the present labors of the commissioners will much facilitate the means of obtaining these results. The mass of facts now presented they owe to the judicious, active, and unremitting exertions of their able assistant.

We have the honor to be, very respectfully, sir, your obedient servants,

MATHEW CAREY,  
CLEMENT. C. BIDDLE.

To the Hon. LOUIS McLANE,  
*Secretary of the Treasury, Washington.*

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### CIRCULAR.

PHILADELPHIA, *March 22d*, 1832.

SIR: Having been directed by the Secretary of the Treasury, under the authority of two resolutions of the House of Representatives, passed the 19th January, to collect and report

such facts as may be necessary to a full knowledge of the manufactures of the United States as far as respects the State of Pennsylvania, we take the liberty of asking your attention to the accompanying queries prepared by the Treasury Department, and of soliciting such answers to them as it is hoped you may be able to furnish, which you will please to designate by numbers corresponding with the queries. It is, however, not intended to exclude any other facts you may think pertinent, or which may be considered essential to a just view of your interests.

As great delay has taken place from unforeseen circumstances, and as the information called for by the House of Representatives is desired as a basis for legislation with a view to the adjustment of the tariff during the present session, we shall be excused for urging upon you an immediate reply, to enable us to make the report to the department within the time limited.

We are, sir, very respectfully, your obedient servants,

MATHEW CAREY,  
CLEMENT C. BIDDLE.

#### LIST OF QUERIES.

1. State and county in which the manufactory is situated?
2. Kind or description of manufactory; and whether water, steam, or other power?
3. When established; and whether a joint stock concern?
4. Capital invested in ground and buildings, and water power, and in machinery?
5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?
6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of the profit upon that portion which is not borrowed?
7. Cause of the increase, (or decrease, as the case may be,) of profit?
8. Rates of profit on capital otherwise employed in the same State and county?
9. Amount of articles annually manufactured since the establishment of the manufactory; description, quality, and value of each kind?
10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?
11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?
12. Number of men, women, and children employed, and average wages of each class?
13. How many hours a day employed, and what portion of the year?
14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?
15. Number of horses or other animals employed?
16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?
17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?
18. Where are the manufactures consumed?
19. Whether any of the manufactures are exported to foreign countries; and if so, where?
20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?
21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?
22. The prices at which the manufactures have been sold by the manufacturer since the establishment?
23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?
24. Is any change necessary in levying or collecting the duty on such articles, to prevent fraud?
25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and, therefore, not divided out annually?
26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?
27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?

28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?

29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to  $12\frac{1}{2}$  per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?

30. If it would cause you to abandon your business, in what way would you employ your capital?

31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to  $12\frac{1}{2}$  per cent.?

32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?

33. Amount of capital, and what proportion the borrowed capital bears to that which is real?

34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent.? and how gradual the reduction should be?

35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum?

36. What would be the operation of this change upon the frauds at present supposed to be practised?

37. Proportion which the production by the American manufacturer bears to the consumption?

38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?

39. Average profit of money or capital in the United States?

40. Average rate of wages?

### DOCUMENT 13.—No. 2.

*Report of Andrew M. Prevost to the Commissioners.*

PHILADELPHIA, April 20, 1832.

MATHEW CARRY and CLEMENT C. BIDDLE, Esquires.

GENTLEMEN: Under your direction, on the 19th March last, I forwarded through the post-office one hundred and twenty-five circulars to the principal woollen, cotton, and iron manufacturers of the eastern district of this State, after having spent several days in distributing others personally to those within my reach, and in obtaining the names and addresses of those at a distance.

As no provision has been made by the United States to procure, through the marshals, at the time of taking the census, returns of the manufacturing establishments of the country, and as the State of Pennsylvania has likewise hitherto neglected to avail itself of the services of the township assessors to attain the same object, there is no where an authentic record to be found to assist in the proposed inquiry; and it was necessary to employ considerable time and industry to obtain even that preliminary information. From the 19th to the end of the month, I delivered and directed upwards of two hundred more circulars, and inserted in the public papers a request that manufacturers should look for them in the post-offices of the county towns nearest their location. My personal communications with them convince me that they have been very generally received, and that the knowledge of your call for information is extensively circulated.

In further obedience to your desires, I travelled through Chester, Lancaster, Dauphin, Lebanon, Berks, Schuylkill, Lehigh, Northampton, and Bucks counties, to further the objects of the Secretary's letter, and found every where that the subject had attracted the attention of the parties interested.

On my return to this city, I regret to observe the very small number of answers received, which are numbered, filed, and annexed to this, and beg leave to repeat to you what I have had the honor of stating in a former communication.

Two obstacles to the collection of information have, almost in every case, met me at the very threshold: the one a universal objection to several of the queries proposed by the department. With many individuals this has operated, no doubt, as a pretext for disregarding the whole of them. My personal attendance on manufacturers and on members of the Legislature, with the circulation of your judicious additional circular, has enabled me to do away

those unfavorable impressions *to a certain extent*, but by no means *entirely*. In proof of my assertion, I need only refer you to the concluding paragraph of Mr. Ronaldson's letter, No. 4, and to expressions used in letter No. 3, by Mr. Crozier, the active manufacturer's committee member of Delaware county, and of Messrs. Riddle in No. 14. Those gentlemen state plainly their objections and their grounds.

The second difficulty arises from the circumstance of your inquiry having been anticipated by the manufacturing interest at the meeting of their Convention in New York, in 1831. Having very generally transmitted since then, to the indefatigable secretary of that Convention, the statements they wish to place in the possession of either himself or the public, they deem it generally useless to furnish the same matter over again, under a different form, to the Treasury Department, and through a different channel. This has been distinctly stated to me by the Chairman of the Committee on Manufactures of the House of Representatives, who assured me that the Secretary of the Treasury was, or would be, in possession of all the returns from his county, and that it would answer no purpose to forward them again. This abundantly accounts for the silence of the greater number.

Under those essential disadvantages, I am unable to produce before you any thing more than detached reports of several counties, such as a pretty accurate table of the numerous iron works of Berks, and of the manufacturing establishments of the northeastern part of Philadelphia county, partial reports of all the iron works of Schuylkill, Dauphin, and Lancaster counties, and a condensed view of the information contained in the answers received. I should feel mortified at this scanty result of several weeks of assiduous attention, were I not conscious that the utmost industry may be exerted in vain.

It will be recollected that this has only been obtained by personal journeys, visits, and excursions to works and manufactories, without which it was found impracticable to get at facts with any degree of accuracy. From my departure on that service, to the period of the discontinuance of the inquiry by order of the department, the time has been so short that more could not well have been done.

My short experience in this inquiry convinces me, that, if it be an object with Government to obtain statistical reports of the manufactures, with the best answers that can be procured to the many interesting but speculative queries in the list, this can only be done by personal applications to individuals. The persons employed should be enabled to spare the time necessary to elicit those answers. They will have to interrogate many a man who, however intelligent he may be in his particular branch of business, would consider it an herculean task to put down his ideas on paper. From the extent of country to be travelled over, and the number of works which have sprung up in every direction, I do not hesitate to say, that the best part of a year would be consumed by a single individual in this district alone; and need not add, that, unless the information obtained can be fully relied upon, it had better never be sought after. You will find annexed to this—

- A. Abstract of the iron works of Berks county.
- B. Abstract of the manufactories in the northeastern part of Philadelphia county.
- C. Abstract of the manufactories in Delaware county.
- D. Abstract of iron works in Schuylkill county.
- E. Abstract of the iron works in Lancaster county.
- F. Abstract of the iron works in York county.
- G. A condensed statement of the manufacturers' answers.
- H. File containing the originals of those answers, No. 1 to 16.
- DD. Some of the original documents from which the information in abstract A is derived.

All which is respectfully submitted, by your obedient servant,

ANDREW M. PREVOST.

## DOCUMENT 13.—No. 3.

A.—Results of the information obtained by A. M. Presset respecting the Iron Works situated in Berks County, Pennsylvania, April, 1832, exhibiting their products for three years.

| Furnaces.    |         | Owners.             | No. of men employed. | Supposed number of persons dependant upon the establishment at 5 per family. | Number of horses. | Quantity of pig mettle in tons. | Quantity of castings in tons. | Quantity of bar iron in tons. | Quantity of blooms in tons. |
|--------------|---------|---------------------|----------------------|------------------------------------------------------------------------------|-------------------|---------------------------------|-------------------------------|-------------------------------|-----------------------------|
| Moschm       | Furnace | N. V. R. Hunter .   | 110                  | 500                                                                          | 60                | 650                             |                               |                               |                             |
| Sally Ann    | do      | J. V. R. Hunter .   | 150                  | 700                                                                          | 51                | 1,300                           | 250                           |                               |                             |
| Reading      | do      | Geo. Egest, est. .  | 228                  | 1,000                                                                        | 198               | 3,600                           | 100                           |                               |                             |
| Kernsville   | do      | Jonas Kern & Co.    | 12                   | 60                                                                           | 12                | 100                             | 100                           |                               |                             |
| Hopewell     | do      | Buckley & Brooks    | 168                  | 800                                                                          | 84                | 1,000                           | 700                           |                               |                             |
| Mary Ann     | do      | Reuben Trexler      | 153                  | 700                                                                          | 81                | 1,350                           | 330                           |                               |                             |
| Joana        | do      | William Darling     | 168                  | 800                                                                          | 80                | 2,300                           | 500                           |                               |                             |
| Oley         | do      | J. W. Snyder .      | 153                  | 700                                                                          | 75                | 1,050                           | 350                           |                               |                             |
| Windsor      | do      | Jones Keim & Co.    | 195                  | 900                                                                          | 48                | 650                             | 750                           |                               |                             |
| Union        | do      | George Reagan .     | 18                   | 90                                                                           | 15                | 700                             |                               |                               |                             |
| Mount Penna  | do      | Seyfert & Schwartz  | 220                  | 1,000                                                                        | 120               | 1,700                           | 500                           |                               |                             |
| Five         | Forge   | J. Rutter .         | 90                   | 400                                                                          | 60                |                                 |                               | 700                           |                             |
| Greentree    | do      | Keen & Bunkhawn     | 19                   | 100                                                                          | 12                |                                 |                               | 150                           |                             |
| Birdsborough | do      | Matth. Brooks, est. | 94                   | 400                                                                          | 52                |                                 |                               | 150                           |                             |
| Gibraltar    | do      | Seyfert & Schwartz  | 1 to 8               | 700                                                                          | 60                |                                 |                               |                               | 1,900                       |
| North Kill   | do      | B. & J. Seyfert .   | 36                   | 160                                                                          | 22                |                                 |                               | 300                           |                             |
| Sixpenny     | do      | George Zacharias    | 62                   | 250                                                                          | 36                |                                 |                               | 600                           |                             |
| Rockland     | do      | J. W. Schneider     | 53                   | 250                                                                          | 30                |                                 |                               | 450                           |                             |
| Oley         | do      | J. S. Spang .       | 35                   | 150                                                                          | 60                |                                 |                               | 300                           |                             |
| Mt. Pleasant | 3 do    |                     | 93                   | 453                                                                          | 45                |                                 |                               | 700                           |                             |
| Speedwell    | do      | Daniel Yokum .      | 99                   | 460                                                                          | 55                |                                 |                               | 200                           | 300                         |
| Rockland     | do      | David Oyster .      | 18                   | 75                                                                           | 27                |                                 |                               | 150                           |                             |
| Dowell       | do      | Jonathan Seidel     | 85                   | 400                                                                          | 60                |                                 |                               |                               | 1,000                       |
| Charming     | do      | George Ege, est.    | 100                  | 450                                                                          | 70                |                                 |                               | 800                           |                             |
| Moschm       | 2 do    | N. & J. Hunter      | 110                  | 500                                                                          | 60                |                                 |                               | 300                           | 700                         |
| Spring       | do      | J. S. Bertolet .    | 40                   | 205                                                                          | 40                |                                 |                               | 350                           |                             |
| Dale         | do      | D. Schall .         | 30                   | 140                                                                          | 20                |                                 |                               | 250                           |                             |
| New District | do      | W. Schall .         | 30                   | 145                                                                          | 50                |                                 |                               | 240                           |                             |
| Union        | do      | Geo. Reagan .       | 60                   | 250                                                                          | 40                |                                 |                               | 600                           |                             |
| District     | do      | Reuben Trexler      | 60                   | 300                                                                          | 61                |                                 |                               | 480                           |                             |
| Forges       | 23      |                     | 2,857                | 12,968                                                                       | 1,674             | 14,200                          | 3,580                         | 7,320                         | 3,900                       |
| Furnaces     | 11      |                     |                      |                                                                              |                   |                                 |                               |                               |                             |

No approximation at the price of wages could be readily obtained, as in iron-works they differ essentially. A good founder may obtain one thousand dollars a year, with one or two boys; while the wagoner, who hauls the coal boxes, receives one hundred or one hundred and twenty dollars, and his board. Wood-choppers are paid thirty-five cents per cord.



## B.—Statements of the Manufactories situated in the northeastern part

| Owners' names.   | Description.                     | Capital invested<br>in buildings and<br>machinery. | Cash capital em-<br>ployed.                  | Domestic raw ma-<br>terial employed. | Foreign raw ma-<br>terial employed. | Tons of coal. | Cords of wood. | Nature of the<br>power. |
|------------------|----------------------------------|----------------------------------------------------|----------------------------------------------|--------------------------------------|-------------------------------------|---------------|----------------|-------------------------|
| William Whitaker | Cotton spinning                  | \$45,000                                           | 12,000 in<br>materials<br>12,000 in<br>wages | 300 bales<br>cotton                  | -                                   | 100           | -              | water                   |
| Steel -          | Cotton weaving                   | 50,000                                             | 30,000                                       | -                                    | -                                   | -             | 300            | -                       |
| Holmesburg works | Cotton -                         | 80,000                                             | 50,000                                       | -                                    | -                                   | 30            | -              | Do                      |
| Geo. McCallmont  | Woollen -                        | 100,000                                            | 40,000                                       | -                                    | -                                   | 50            | 200            | -                       |
| Garret -         | Flax -                           | 10,000                                             | -                                            | -                                    | -                                   | 15            | -              | Do                      |
| Knight & Co. -   | Cotton & umbrella                | 10,000                                             | 15,000                                       | -                                    | -                                   | 150           | 100            | -                       |
| Comly -          | Cotton printing -                | 75,000                                             | 60,000                                       | -                                    | -                                   | 40            | 600            | -                       |
| Brown's -        | Cotton printing -                | 5,000                                              | 1,500                                        | -                                    | -                                   | -             | -              | Horse                   |
|                  | Cotton cloth & yarn              |                                                    |                                              | 300 lbs.<br>superfine                | 10,000lbs<br>indigo                 |               |                |                         |
| Jerem'h Horrocks | Woollen cloth and<br>cloth dying | 15,000                                             | -                                            | Dye<br>drugs                         | 170,000<br>dyewoods                 | 150           | 800            | steam                   |
| Shuttleworth -   | Cotton dying -                   | 4,000                                              | 3,000                                        | -                                    | -                                   | -             | -              | water                   |
| Ripka -          | Cotton weaving                   | 25,000                                             | 65,000                                       | -                                    | -                                   | 20            | -              | Do                      |
| Pennipack -      | Cotton printing                  | 70,000                                             | 90,000                                       | -                                    | -                                   | 600           | -              | Do                      |
| Washington -     | Cotton dying -                   | 5,000                                              | 10,000                                       | -                                    | -                                   | 15            | -              | -                       |
| Wilson's -       | Cotton dying -                   | 6,000                                              | 12,000                                       | -                                    | -                                   | 30            | -              | water                   |
| La Grange -      | Cotton printing                  | 50,000                                             | 85,000                                       | -                                    | -                                   | 300           | -              | Do                      |
| Vereers -        | Iron works -                     | 12,000                                             | 7,500                                        | -                                    | -                                   | 100           | -              | Do                      |
| Boyers -         | Iron works -                     | 10,000                                             | 5,000                                        | -                                    | -                                   | 20            | -              | Do                      |
| Rowland's -      | Iron works -                     | 10,000                                             | 5,000                                        | -                                    | -                                   | 40            | -              | Do                      |
| Crispin -        | Iron works -                     | 2,000                                              | 1,800                                        | -                                    | -                                   | -             | -              | Do                      |
| Richardson -     | Cotton spinning                  | 17,000                                             | 6,000                                        | -                                    | -                                   | -             | -              | Do                      |
| Shallcross -     | Cotton dying                     | 12,000                                             | 8,000                                        | -                                    | -                                   | -             | -              | -                       |
| Blacks -         | Cotton dying                     | 20,000                                             | 30,000                                       | -                                    | -                                   | -             | -              | -                       |
| T. & B. Roland - | Iron works -                     | 20,000                                             | 15,000                                       | -                                    | -                                   | 150           | -              | -                       |
| J. & J. Roland - | Iron works -                     | 25,000                                             | 6,000                                        | -                                    | -                                   | 190           | -              | -                       |
| Jenks -          | Iron machinery                   | 50,000                                             | 80,000                                       | -                                    | -                                   | 200           | 800            | -                       |
| Pilling & Bolton | Bleaching -                      | 30,000                                             | 20,000                                       | -                                    | -                                   | -             | 700            | -                       |
| Large -          | Cotton dying -                   |                                                    |                                              |                                      |                                     |               |                |                         |

The above statement is taken from the data collected by a committee appointed by the citizens of Frankford, and obtained, with few exceptions, from the manufac-

13.—No. 4.

of the County of Philadelphia, vicinity of Frankford.

| Number of hands actually employed. | Wages paid per annum.                | Description, quantity, and value of goods manufactured. | Annual rate of profit on capital employed. | Market.                      | No. of horses. | Remarks.                                                 |
|------------------------------------|--------------------------------------|---------------------------------------------------------|--------------------------------------------|------------------------------|----------------|----------------------------------------------------------|
| 85                                 | Men, \$1<br>Wom. 50cts<br>Chil. 25 " | 20 to 30,000 dozen                                      | from 5 to 20 per ct.                       | N.Y. <sup>k</sup> and Phila. | 4              |                                                          |
| 130                                | 18,500                               | -                                                       | -                                          | -                            | -              | 120,000 lbs. wool manufa'd annually.                     |
| 40                                 | 7,800                                | -                                                       | -                                          | -                            | -              | 80 tons hemp manufactured in yarn, twine, &c.            |
| 30                                 | 5,200                                | -                                                       | -                                          | -                            | -              | 104,000 lbs. cotton dyed, 224,640 umbrellas made.        |
| 50                                 | 12,400                               | -                                                       | -                                          | -                            | -              | 2,248,760 yds. printed in 1831.                          |
| 6                                  | 1,900                                | -                                                       | -                                          | -                            | -              | 18,000 yards printed annually.                           |
| 63 men                             | Men, \$1                             | -                                                       | -                                          | -                            | -              | 1,456,000 yds. dyed and finished.                        |
| 10 boys                            | Boys, 36cts.                         | -                                                       | -                                          | -                            | -              |                                                          |
| 1 woman                            | Wom. 50cts.                          | -                                                       | -                                          | -                            | -              | 1,400,000 yds. finished only, and 41,000 lbs. yarn dyed. |
| 4                                  | 1,000                                | -                                                       | -                                          | -                            | -              | 72,800 lbs. yarn dyed in 1831.                           |
| 100                                | 12,600                               | 750,000 yds.                                            | -                                          | -                            | -              |                                                          |
| 80                                 | 10,000                               | -                                                       | -                                          | -                            | -              | 3,000,000 yds. printed annually.                         |
| 6                                  | 2,000                                | -                                                       | -                                          | -                            | -              | 450,000 yds. dyed in 1831. Est. new.                     |
| 10                                 | 3,000                                | -                                                       | -                                          | -                            | -              | 600,000 yds. dyed in 1831.                               |
| 60                                 | 14,200                               | -                                                       | -                                          | -                            | -              | 3,000,000 yds. printed annually.                         |
| 12                                 | 3,744                                | 6,000 millsaws                                          | -                                          | -                            | -              |                                                          |
|                                    |                                      | 6,000 do                                                | -                                          | -                            | -              |                                                          |
| 7                                  | 2,088                                | 4,000 spades                                            | -                                          | -                            | -              |                                                          |
| 7                                  | 2,400                                | 10,800 spades                                           | -                                          | -                            | -              |                                                          |
| 4                                  | 1,250                                | 1,200 millsaws                                          | -                                          | -                            | -              |                                                          |
| 20                                 | 5,200                                | -                                                       | -                                          | -                            | -              |                                                          |
| 40                                 | 9,300                                | -                                                       | -                                          | -                            | -              |                                                          |
| 40                                 | 10,000                               | -                                                       | -                                          | -                            | -              | Manufacture, &c:                                         |
| 40                                 | 10,400                               | -                                                       | -                                          | -                            | -              | Spades and shovels. No. not given.                       |
| 10                                 | 3,000                                | -                                                       | -                                          | -                            | -              | Rolling and slitting. Do.                                |
| 110                                | 33,000                               | -                                                       | -                                          | -                            | -              | Quantity and value not given.                            |
| 20                                 | 6,000                                | -                                                       | -                                          | -                            | -              | 3,000,000 yds. bleached.                                 |

urers themselves. It has been altered from communications made by manufacturers to Messrs. Carey and Biddle, whenever any difference has appeared in their reports.

## DOCUMENT 13.—No. 5.

*C.—Manufactures of Delaware County, State of Pennsylvania.*

| Mills and factories.                                                                                                              | Quantity manufactured.                                 | Nature of the articles.                                                                                                   | Value per annum.                                           | No. of persons employed, and their families. |
|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------|
| Four rolling and slitting mills }<br>Two nail factories }<br>Four tilt mills }<br>Thirteen paper mills -<br>Eleven cotton mills - | 1,400 tons }<br>say }<br>41,000 r'ns }<br>900,000 do } | 300 tons sheet iron -<br>600 tons nails -<br>500 tons hoop & rods<br>Spades and shovels<br>Various kinds of paper<br>Yarn | 45,000<br>81,000<br>60,000<br>91,175<br>215,000<br>250,000 | 205<br>30<br>400<br>600—19,500<br>spindles.  |
| Three cotton weaving                                                                                                              | 3,000,000 yda.                                         | Ticking, muslin, &c.                                                                                                      | 350,000                                                    | 480—400 power looms.                         |
| Two cotton spinning -<br>Eight woollen mills -                                                                                    | 180,000 lbs.<br>900,000 yda.                           | Yarn -<br>Flannel, satinnet, &c.                                                                                          | 50,000<br>300,000                                          | 120<br>350                                   |
|                                                                                                                                   |                                                        |                                                                                                                           | \$1,372,175                                                | 2,185                                        |

For the accuracy of the above statement, although appearing in round numbers, the members of the committee of five of Delaware county express their belief.

## DOCUMENT 13.—No. 6.

*D.—Iron Works of Schuylkill County.*

| Furnaces.                                                                                                                                   | Owners' names.                                                                                                     | Quantities manufactured.                                                                                  |                                |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------|
| Pine Grove -<br>Windsor -<br>Quincy -                                                                                                       | George Eckert -<br>George Keim -<br>- -                                                                            | 700 tons pigs, 300 castings<br>550 do do 250 do -<br>500 do do - -                                        | Not in operation<br>this year. |
| <b>Forges.</b>                                                                                                                              |                                                                                                                    |                                                                                                           |                                |
| Pine Grove -<br>Schuylkill Haven -<br>Windsor, 2 furnaces -<br>Schuylkill, Port Clinton -<br>Brunswick -<br>McKeansburg -<br>Mount Hebron - | Raudenbush -<br>John Pott -<br>George Keim -<br>Jeremiah Boone -<br>Focht -<br>Lewis Audenried -<br>Evan E. Rigg - | 150 tons bars -<br>150 do do -<br>300 do do -<br>200 do do -<br>100 do do -<br>100 do do -<br>150 do do - |                                |

## DOCUMENT 13.—No. 7.

B.—Result of the information obtained by A. M. Prevost respecting the Iron Works of Lancaster County.

| Furnaces.          | Owners' names.        | Quantity of pigs & castings | Quantities of bar. | Rolling mills & nail fac'tries.                                                                                                         |
|--------------------|-----------------------|-----------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Cornwall           | Bird Coleman          | 1,200 tons                  |                    | Martick. Jas. Coleman's estate; 500 tons nails and 500 tons rolled iron.<br>Laurel. Buckley's; 500 tons nails and 500 tons rolled iron. |
| Colebrook          | Bird Coleman          | 1,000 do                    |                    |                                                                                                                                         |
| Elizabeth          | James Coleman         | 1,000 do                    |                    |                                                                                                                                         |
| Conawingo          | Hopkins & Orrick      | 800 do                      |                    |                                                                                                                                         |
| Mount Hope Forges. | Edward B. Grubb       | 1,000 do                    |                    |                                                                                                                                         |
| Hopewell           | Bird Coleman          | -                           | 250 tons           |                                                                                                                                         |
| Martick            | Jas. Coleman's estate | -                           | 300 do             |                                                                                                                                         |
| Brook              | Buckley               | -                           | 150 do             |                                                                                                                                         |
| Ringwood           | Buckley               | -                           | 250 do             |                                                                                                                                         |
| Poole              | Samuel Jacobs         | -                           | 200 do             |                                                                                                                                         |
| Spring             | Samuel Jacobs         | -                           | 200 do             |                                                                                                                                         |
| Windsor            | Robert Jenkins        | -                           | 200 do             |                                                                                                                                         |
| Hibernia           | Charles Brooks        | -                           | 200 do             |                                                                                                                                         |
| Sadsburg           | James Prowell         | -                           | 200 do             |                                                                                                                                         |
| Rock               | John Caldwell         | -                           | 200 do             |                                                                                                                                         |
| Webbs              | John Caldwell         | -                           | 200 do             |                                                                                                                                         |

## DOCUMENT 13.—No. 8.

F.—Abstract of Iron Works in York County.

| Forges.     | Owners.         | Quantity manufactured. |
|-------------|-----------------|------------------------|
| Cadorus     | Edward B. Grubb | 350 tons bar.          |
| Spring      | B. Coleman      | 200 do.                |
| Castlefield | B. Coleman      | 300 do.                |

## DOCUMENT 13.—No. 9.

G. No. 1.—*Abstract of answers received from Manufacturers to the queries No. 1 to 40, contained in the Secretary's letter.*

| Questions.     | Whitaker, Philadel. Co.                                       | Horrocks, Philadelphia Co.                                          | Crozier, Delaware Co.                                                                                | M. & H. Coste's, Chester.                               |
|----------------|---------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| No. 1, 2, & 3. | Cotton mill, 1817.<br>Water power.                            | Dying estab.<br>Steam power.<br>1821. Ind.con.<br>About \$15,000.   | Cotton mill, 1825.<br>Water power. Individual concern.<br>\$15,000.                                  | Rolling mill & mill<br>Water pow. 1839.                 |
| 4              | About \$ 4,500.                                               | -                                                                   | \$5,168 wages per an.                                                                                | About \$70,000.                                         |
| 5              | Raw materials \$12,000<br>wages, &c. 10 to 12.                | -                                                                   | 3,757 for mechanics<br>casting.                                                                      |                                                         |
| 6              | Fluctuating at times,<br>a losing business.                   | -                                                                   | In 1839 & '30 profits<br>null, revived since.                                                        |                                                         |
| 7              | Competition, excess.<br>importation.                          | -                                                                   | -                                                                                                    | Profits decreased by<br>competition.                    |
| 8              | From 5 to 20.                                                 | -                                                                   | Woollen manufactur's<br>doing well, but complain of last tariff.                                     |                                                         |
| 9              | Until 1824, \$ 10,000;<br>since, 20 to 30,000.                | Dyed 1,456,000<br>yds., finished<br>1,400,000, &<br>41,600 lbs.cot. |                                                                                                      |                                                         |
| 10             | 300 bales cotton American.                                    | Foreign dye-<br>woods princ'y.                                      | 383 bales cotton.                                                                                    | 900 tons blooms,<br>500 tons coal.                      |
| 11             | from G. Britain.                                              | -                                                                   | No foreign articles<br>same kind imported.                                                           | No cut nails imported.                                  |
| 12             | 15 men at \$1, 20 women at 50 cts., and<br>30 children at 25. | 42 men,<br>10 boys,<br>1 woman.                                     | 15 men, 16 women, 20<br>children; at \$7 50,<br>2 25, & 1 50 pr. w'k                                 | 60 men, from \$1 to<br>\$1 50 per day.                  |
| 13             | 10 to 12 hours all the<br>year.                               | 10½ in summer,<br>10 in winter.                                     | 12 hours all the year.                                                                               | Rollers day & night,<br>nailers from sunrise to sunset. |
| 14             | Agriculturists lower<br>in N. England, women lower in G. B. & | -                                                                   | In other branches working fewer hours they receive less.                                             | Out-doors work 75<br>cents per day.                     |
| 15             | Four horses.                                                  | Four horses.                                                        | Two or three horses.                                                                                 | 1 horse, and boat on canal.                             |
| 16             | Philadelphia and N. York.                                     | -                                                                   | Philadelphia, sold to power looms.                                                                   | Pennsylvania and Louisiana.                             |
| 17             | Very often to a large extent.                                 | -                                                                   | No foreign competition.                                                                              |                                                         |
| 18             | All over the U. States                                        | -                                                                   | In the United States.                                                                                |                                                         |
| 19             | Some believe sent to Mexico.                                  | -                                                                   | A few small orders Mexico.                                                                           |                                                         |
| 20             | Six and eight months' credit.                                 | -                                                                   | Yarn sells at 4 months' credit.                                                                      | 4 and six months' credit.                               |
| 21             | Generally decreasing                                          | -                                                                   | Gradually decreasing.                                                                                | Decreased \$20 p.t.                                     |
| 22             | Say, 5-4 sheeting in 1835, 18 cents, in 1830, 10 cents.       | -                                                                   | In 1821, 47c. 1830, 20c, in 1832, 25 to 27 cts.                                                      | Decrease in iron and improvements.                      |
| 23             | About 30 or 40 pr. ct.                                        | -                                                                   | None in coarse cotton fabrics, but present duties do not always protect against European sacrifices. | Private concern.                                        |
| 24             | A specific cash duty                                          | -                                                                   | -                                                                                                    | None.                                                   |
| 25             | First years unprofitable, the last about 10 per cent.         | Profits expended in improvements.                                   | About 8 per cent. beyond interest on the capital, 2-5 laid out in improvements.                      |                                                         |

## DOCUMENT 13.—No. 9—Continued.

| Questions. | Whitaker, Philadel. Co.                                                       | Horrocks, Philadelphia Co.                                  | Crozier, Delaware Co.                                        | M. & H. Coate's, Chester.                                       |
|------------|-------------------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------|
| 26         | At times below cost, when materials and labor is each half.                   | - -                                                         | Raw material half value yarn, wages 1-5, outdoor labor 1-10. | Blooms \$65; labor \$17 to \$20; nails \$120 per ton.           |
| 27         | 20 or 30 bls. flour, 100 tons coal, wood, oil, iron, and subsistence for 100. | 300 bls. flour, 800 cda. wood, 150 tons coal.               | Food and apparel for 105 persons.                            |                                                                 |
| 28         | - - -                                                                         | - - -                                                       | - - -                                                        | Amount in the U.S. 40,000 tons.                                 |
| 29         | Should abandon.                                                               | Should abandon.                                             | Should be compelled to abandon.                              | Would be abandoned.                                             |
| 30         | Brought up to this alone; cannot answer.                                      | Capital being fixed in buildings, &c. would ruin.           | Capital in machinery being destroyed, cannot say.            |                                                                 |
| 31&32      | - - -                                                                         | - - -                                                       | Cotton spinning very uninviting.                             | Canals and railroads would convey imported articles everywhere. |
| 34         | Cannot say; with present duties does not always yield six.                    | If any reaction on present duties, stop all establishments. |                                                              |                                                                 |
| 37         | In our branch $\frac{1}{2}$ of the whole.                                     | - - -                                                       | - - -                                                        | No cut nails imported.                                          |

## DOCUMENT 13.—No. 9—Continued.

| Questions.    | Henry Jordon & Co., Northampton.         | Wagner & Brothers, Philadelphia County.                         | Wistar & Fisher, Philadelphia County.                                                                     |
|---------------|------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| No. 1, 2, & 3 | Forge. 1829. Water power.                | 1822. Individual concern. Water power. Cotton works.            | Woollen manufactory. Individual concern. 1810.                                                            |
| 4             | \$36,000 dollars.                        | \$70,000, no part borrowed.                                     | \$35,000 buildings and water power; \$18,000 in machinery.                                                |
| 5             | Material \$12,000, labor \$10,000.       | \$68,129; do do.                                                | In 1830, wool \$35,000; dye-stuffs 9,000; wages 12,000. 1831, wool 10,000; dye-stuffs 3,000; wages 4,000. |
| 6             | Not over 10 per cent. or 4 on borrowed.  | No profit beyond interest from 1828-'30, in 1831 five per cent. | Business has not averaged 6 per cent. for several years.                                                  |
| 7             | Decreased by domestic competition.       | General prosperity in 1831.                                     | Fluctuation in price of wool, and excess of importations.                                                 |
| 8             | In this county 10 to 12 per cent.        | Supposed better than this.                                      |                                                                                                           |
| 9             | \$27,000 superior bar iron.              | Average 180,000 lbs. No. 20 yarn; domestic goods \$65,625.      | 10 to 12,000 yards satinets, once \$1 40, now 60 cents per yard.                                          |
| 10            | 450 tons pigs; 100,000 bushels charcoal. | Foreign articles, indigo, &c. \$3,800.                          | 10 to 100,000 pounds wool, part foreign.                                                                  |
| 11            | Unknown.                                 | Domestic 200,000, \$20,000.                                     | No importation of satinets from Great Britain.                                                            |

## DOCUMENT 13.—No. 9—Continued.

| Questions. | Henry Jordan & Co.,<br>Northampton.                                   | Wagner & Brothers,<br>Philadelphia County.                                                                                                                      | Wistar & Fisher, Philadel-<br>phia County.                                                                        |
|------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 12         | 75 men, averaging 75 cts.<br>per day.                                 | 15 men at \$7, 65 women,<br>boys, and girls, at \$1 50<br>per week. 268 persons.<br>Hand loom weaving, &c.<br>wages per ann. \$37,000.                          | Near 300 persons support-<br>ed by us.                                                                            |
| 13         | 10 hours a day all the year.                                          | Twelve hours.                                                                                                                                                   | Average 12 hours.                                                                                                 |
| 14         | In this county similar, in<br>others unknown.                         | Not known.                                                                                                                                                      | Wages below mechanics'<br>wages, lower than N. E.,<br>50 to 70 per cent. higher<br>than G. B.                     |
| 15         | 40 horses and mules.                                                  | One horse.                                                                                                                                                      | 2 horses and 1 pair exen.                                                                                         |
| 16         | 50 tons at the forge, rest<br>at New York.                            | Philadelphia.                                                                                                                                                   | In this country.                                                                                                  |
| 17         | Best Russia and Swedish.                                              | Affected by prices of for-<br>eign fabrics.                                                                                                                     | Affected by foreign fabric,<br>high price of wool and la-<br>bor in this country com-<br>pared to those of Eng'd. |
| 18         | Northampton, New York,<br>and Connecticut.                            | United States and South<br>America.                                                                                                                             |                                                                                                                   |
| 19         | Uncertain.                                                            | South America, Asia, and<br>China.                                                                                                                              | Few exported, and cannot<br>be until price of wool and<br>manufacturer be reduced.                                |
| 20         | In New York, 4 months'<br>credit.                                     | Principally at 4 months;<br>goods at 6 and 8 months.                                                                                                            |                                                                                                                   |
| 21         | Rather decreased.                                                     | In 1831 appreciated.                                                                                                                                            | Goods $\frac{1}{2}$ of price 15 years<br>ago; cost decreased, but<br>not in that proportion.                      |
| 22         | Superior quality \$90 ton.                                            | In 1829 and 1830 prices<br>depressed. Improved in<br>1831; now declining.                                                                                       |                                                                                                                   |
| 23         | 30 per cent.                                                          | On cotton yarn not less<br>than present duty; on<br>manufactured goods,<br>coarse, less sufficient.                                                             | Duty adequate if collected<br>without fraud. See at<br>large letter on reducing<br>duty on imported wool.         |
| 24         | We presume not.                                                       | No change; present mode<br>judicious.                                                                                                                           |                                                                                                                   |
| 26         | Wages 12 $\frac{1}{2}$ , materials 58,<br>profit on capital 10 pr.ct. | Material 22, labor 56, dye-<br>stuff 14, profit 8.                                                                                                              |                                                                                                                   |
| 27         | \$5,000 grain, pork, hay.                                             | Uncertain.                                                                                                                                                      |                                                                                                                   |
| 28         | Unknown.                                                              | Unknown.                                                                                                                                                        |                                                                                                                   |
| 29         | Give it up at once.                                                   | Abandon.                                                                                                                                                        |                                                                                                                   |
| 30         | More than half would be<br>lost.                                      | Half capital would be sunk.                                                                                                                                     |                                                                                                                   |
| 31&32      | Any other business would<br>be better.                                |                                                                                                                                                                 |                                                                                                                   |
| 34         | - - -                                                                 | At present capital employ-<br>ed yields no interest ade-<br>quate to the risk; any re-<br>duction of duties would<br>endanger the stability of<br>the business. |                                                                                                                   |

Duty on coarse wool should be reduc-  
ed; tariff of 1828 injured the manu-  
facturers. 40 per cent. with reduc-  
tion of duty on wool, better than 60  
without, as wool costs the manu-  
facturer here 40 to 80 per cent. high-  
er than to the European.

## DOCUMENT 13.—No. 10.

G. No. 2.—Abstract of Answers received, &amp;c.—Continued.

| Questions.       | William P. Jenks & Co.,<br>Bucks County.                                                   | Henry Moore, Delaware Co.                                                                                | J. & J. Riddle, Del. Co.                                                                                     |
|------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| No. 1,<br>2, & 3 | Cotton-yarn manufactory.<br>Water power. 1824.                                             | Rolling and slitting and<br>nail manufactory. 1809.<br>Individual concern.                               | Cotton spinning mill 1831.<br>Water power.                                                                   |
| 4                | \$25,000 building; 30,000<br>machinery.                                                    | 60,000 dollars.                                                                                          | Buildings \$10,000; power<br>7,000; machinery 16,000.<br>About \$40,000 required.                            |
| 5                | \$33,000.                                                                                  | \$32,000 and wages 7,800<br>annually.                                                                    | Very uncertain.                                                                                              |
| 6                | - - -                                                                                      | About eight per cent. on<br>whole amount invested.                                                       | Foreign importations.                                                                                        |
| 7                | Decrease of importations<br>1829 and 1830.                                                 | Domestic competition.                                                                                    | 11, 12, and 15 per cent.                                                                                     |
| 8                | Unknown.                                                                                   | Believed to be more in<br>other manufactories.                                                           |                                                                                                              |
| 9                | 180,000 lbs. yarn, average<br>23 cents.                                                    | In 1810 100 tons, now 400<br>tons; nails, price in 1810<br>10 cents, now 6 cents.                        | 180,000 at 10½ cents per lb.                                                                                 |
| 10               | 200,000 lbs. cotton.                                                                       | 400 tons bar iron, mostly<br>foreign, last 3 years al-<br>most all American.                             | 16 men, 8 to \$10; 20 girls,<br>\$2; and 14 at \$1 to \$1½<br>per week.                                      |
| 12               | 17 men at \$6 50; 16 wo-<br>men at \$2; 30 boys at<br>\$1 25; 17 girls at \$1 per<br>week. | 26 men employed, and<br>their families dependant.                                                        | Twelve hours a day.                                                                                          |
| 13               | 11½ hours the year through.                                                                | 12 hours, including meals.                                                                               | Same among trades people.                                                                                    |
| 14               | Men and women about<br>same rates; children gen-<br>erally unemployed.                     | Farming wages something<br>less, except in harvest,<br>but same as other manu-<br>facturing employments. | 4 or 5 horses for hauling.<br>Part here, part Philadel.<br>No competition against<br>our yarn, being coarse. |
| 15               | Six horses.                                                                                | Seven horses.                                                                                            | None exported.                                                                                               |
| 16               | Philadelphia, 32 miles.                                                                    | The neighb'rhood and U.S.                                                                                | Cash and credit.                                                                                             |
| 17               | Little foreign competition<br>in yarn.                                                     | No foreign competition.                                                                                  | No variation for 3 years.                                                                                    |
| 18               | Principally Philadelphia.                                                                  | Principally United States.                                                                               | 26, 25, 24, and 23, same<br>yarn.                                                                            |
| 19               | Small quantities to South<br>America and East Indies.                                      | A few exported to South<br>America and West Indies.                                                      | An addition of 15 per ct.<br>on the existing tariff,<br>would enable us to ma-<br>nufacture fine yarn.       |
| 20               | Average credit 90 days.                                                                    | At 6 months, or bartered<br>for iron.                                                                    | Great frauds supposed to<br>be committed along the<br>Canada line.                                           |
| 21               | No variation in materials<br>or labor.                                                     | Decreased, owing to im-<br>proved use of anthracite.                                                     | Cotton \$12.60, labor \$8,<br>expenses 40c. will make<br>100 lbs. yarn, worth \$23.                          |
| 22               | - - -                                                                                      | 1810, nails were 10 cents,<br>have been as low as 5½,<br>and are now 6 cents.                            | 120 bbls. flour and \$500<br>per month expended in<br>agricultural and domes-<br>tic goods.                  |
| 23               | Present rate considered<br>protection.                                                     | Duty ample, perhaps a re-<br>duction of 20 per cent.<br>would not injure.                                |                                                                                                              |
| 24               | - - -                                                                                      | Not any in the article of<br>nails.                                                                      |                                                                                                              |
| 25               | Not exceeding 7 per cent.                                                                  | Business depressed for 3<br>years, revived last six<br>months, again declining.                          |                                                                                                              |
| 26               | Cotton ½, wages 7-16, pro-<br>fits 1-16.                                                   | Raw materials 4-6, labor<br>1-6, expenses 1-12.                                                          |                                                                                                              |
| 27               | Agricultural 21,000; do-<br>mestic 2,000.                                                  | About ½ amount of wages,<br>say \$6,000, in agricultu-<br>ral and domestic.                              |                                                                                                              |



## DOCUMENT 13.—No. 10—Continued.

| Questions. | William P. Jenks & Co.,<br>Bucks County. | Henry Moore, Delaware Co.                                                                                                                              | S. & L. Riddle, Del. Co.                                                          |
|------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 28         | Unknown.                                 | -                                                                                                                                                      | Does not know.                                                                    |
| 29         | Reduction to 12½ would cause suspension. | Until anthracite coal be introduced in the smelting of iron ore, our iron master cannot meet English competition if the duty were reduced to 12½ p.ct. | Be forced to abandon.                                                             |
| 31&32      | -                                        | -                                                                                                                                                      | In that case might go with the Indians over the Mississippi.                      |
| 35&36      | -                                        | -                                                                                                                                                      | Duty should be assessed on the value in America, which would prevent many frauds. |

## DOCUMENT 13.—No. 10—Continued.

| Questions. | Wm. Darling, Berk's County.                                                                                                     | Cardon de Sandran, Dauphin County.                           |
|------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| No. 1,     |                                                                                                                                 |                                                              |
| 2, & 3     | Furnace. 1793. Water power.                                                                                                     | Forges. 1830. Water power.                                   |
| 4          | \$42,000. None borrowed.                                                                                                        | 48,000 dollars.                                              |
| 5          | \$25,000. do                                                                                                                    |                                                              |
| 6          | About five per cent.                                                                                                            | 3,000 dollars per annum.                                     |
| 7          | Domestic competition.                                                                                                           | Importation of iron under false denomination.                |
| 8          | In mercantile 8 to 12 per cent.                                                                                                 | 200 tons bar.                                                |
| 9          | 800 tons metal.                                                                                                                 | 300 tons American pig metal.                                 |
| 10         | 5,000 cords wood, and 2,000 tons ore.                                                                                           |                                                              |
| 12         | 95 men, at \$14 per month. 500 persons dependant.                                                                               | 60 men, averaging \$20 per month.                            |
| 13         | 10 hours a day.                                                                                                                 | Six to ten hours year round.                                 |
| 14         | 8 to \$12 the highest wages given elsewhere.                                                                                    | Not known.                                                   |
| 15         | Sixty horses.                                                                                                                   | 30 to 40 mules, 10 oxen.                                     |
| 16         | Pigs sold at the works, a part of the castings in Philadelphia.                                                                 | Philadelphia and Baltimore.                                  |
| 17         | -                                                                                                                               | Foreign iron sold as old iron scraps.                        |
| 18         | United States, So. America, and Africa.                                                                                         | Chiefly in Philadelphia and Baltimore.                       |
| 19         | -                                                                                                                               | Not exported.                                                |
| 20         | Six months.                                                                                                                     | Six months' credit.                                          |
| 21         | Cost of manufacturing increased from 15 to 25 per cent.                                                                         | Cost has increased 15 per cent.                              |
| 22         | -                                                                                                                               | Average 82 dollars per ton.                                  |
| 23         | Pigs 25, 31, 28. Castings 60, 75, 65.                                                                                           |                                                              |
| 24         | Duty requisite. A small reduction would have the same effect as the repeal of the whole.                                        | Present duty, and preventing introduction under false names. |
| 25         | -                                                                                                                               | Very trifling profit.                                        |
| 27         | 7,000 bushels grain; 22,000 lbs. pork; 15,000 lbs. beef; and domestic cotton goods \$1,600, are consumed yearly at the furnace. | 3,000 bushels rye; 1,200 bushels oats; 900 bushels wheat.    |
| 29         | -                                                                                                                               | Be forced to abandon.                                        |
| 30         | -                                                                                                                               | Hard to tell.                                                |
| 31&32      | -                                                                                                                               | Can't tell:                                                  |
| 34         | -                                                                                                                               | Canals and railroads increase the circle of competition.     |

The attention of the Government is requested to letter No. 4. of James Ronaldson, of which it is impossible to make a short abstract.

## DOCUMENT 13.—No. 11.

PHILADELPHIA, April 14, 1832.

GENTLEMEN: Annexed are answers to some of the queries proposed in your letter of 22d March, which, from a hasty consideration, may be not quite correct; which you will please excuse.

Very respectfully,

Your obedient servant,

WM. WHITAKER,  
R. WHITAKER.M. CAREY,  
C. C. BIDDLE.

Per

## ANSWERS TO QUERIES.

1. Pennsylvania State, Philadelphia county.
2. Cotton; water power.
3. Established in 1817. Individual concern.
4. About forty-five thousand dollars.
5. Raw material \$12,000, wages, &c. 10 to \$12,000.
6. Very fluctuating; sometimes a losing business, &c.
7. Competition, excess of importations, &c.
8. From five to twenty per cent.
9. Until 1824, about ten thousand dollars; since then, twenty to thirty thousand.
10. About 300 bales cotton, American, from 9 to 28 cents; average, 12 cents per pound.
11. From Great Britain.
12. About fifteen men at \$1, twenty young women at 50 cents, and thirty children at 25 cents, per day.
13. From ten to twelve hours per day, all the year.
14. Agriculturists lower; women in New England lower; and in Great Britain half.
15. Keep four horses for factory, and farming about thirty acres.
16. All sent to Philadelphia and New York.
17. Very often. Sometimes to a large extent.
18. All through the country.
19. I believe some were exported to Mexico.
20. Very rarely for cash; generally at six months, and often at eight.
21. Generally decreasing; by raw material, facilities, wages, &c.
22. Say five-quarter sheeting; in 1825 at 18 cents per yard, and in 1830 at 10 cents: yarn No. 18, at 45 to 18.
23. About thirty or forty per cent., so long as capital and labor is fifty to one hundred per cent. higher than in Great Britain.
24. Perhaps a specific cash duty may answer.
25. Very fluctuating; the first year unprofitable, the last about ten per cent.
26. Sometimes sold below cost; when material, and labor, &c., is each half.
27. About 300 bales cotton, and subsistence for upwards of 100 persons: also 100 tons coal, and 20 or 30 barrels flour or starch: iron, wood, oil, &c.
29. In that case should be compelled to abandon the business.
30. Having been brought up to this alone, I cannot at present answer.
- 31 & 32. Cannot answer at present.
33. Answered in part above: about two-thirds.
34. Cannot answer; as, with the present duties, capital does not always yield six per cent.
- 35 & 36. Cannot answer.
37. In our particular branch, suppose three-fourths, or more.
- 38 & 39. Can't answer.
40. For men, \$1 per day; women 40 cents, and children 25 cents per day.

## DOCUMENT 13.—No. 12.

## FRANKFORD BLACK, BLUE, AND FANCY DYE WORKS.

To Messrs. M. CAREY &amp; C. C. BIDDLE.

SIR: I herewith send you a few answers (so far as they are connected with my business) to the queries of your note of the 22d of March last.

## ANSWERS TO QUERIES.

1. In the State of Pennsylvania, county of Philadelphia, township of Oxford, and borough of Frankford.

2. A dying establishment of all kinds of cotton cloth, and cotton and worsted yarns; and steam power.

3. Established in the year 1821, and an individual concern.

4. Capital invested in ground, buildings, and machinery, about \$15,000.

9. Cannot say what has been done since the establishment first began; but, for the last twelve months, have dyed and finished, of different kinds of cotton cloth, one million four hundred and fifty-six thousand yards; besides, or exclusive of a peculiar kind of cloth, which I do nothing to but finish, (mot dye,) which will equal in amount the above. I have also dyed about forty-one thousand six hundred pounds of cotton and worsted yarn during the same time.

10. Foreign articles used last year are as follows:

|             |                   |
|-------------|-------------------|
| 62,442 lbs. | Campeachy logwood |
| 64,401 "    | Cuba fustic       |
| 29,069 "    | Nicaragua wood    |
| 1,300 "     | bar and camwood   |
| 2,910 "     | safflower         |
| 10,186 "    | Bengal indigo     |
| 13,129 "    | Sicily sumac      |
| 1,790 "     | cream tartar      |

Of domestic articles,

|            |                    |
|------------|--------------------|
| 1,595 lbs. | oil vitriol        |
| 2,639 "    | muriatic acid      |
| 465 "      | aqurz fortis       |
| 4,235 "    | alum               |
| 14,420 "   | copperas           |
| 6,522 "    | pot and pearl ash. |

12. Forty-two men, average wages \$1 per day, each; ten boys, average wages \$2 50 cents per week; one woman at 50 cents per day.

13. Labor ten and a half hours per day in summer, and ten in the winter season, and steady employment all the year.

14. As to the rate of wages of similar classes otherwise employed, I cannot say.

15. Four horses, besides hiring my fuel hauled, which costs three hundred and eighty dollars per year. As the 16th to 24th queries relates to sellers of goods, I shall leave them for such to answer.

25. My profits have been annually expended in improvements in the different departments of the establishment.

26. Three hundred barrels of the best white wheat flour per year, eight hundred cords of pine wood per year, one hundred and fifty tons of anthracite coal.

29. If the duty was reduced to 12½ per cent. on the quality of goods which I dye and finish, it would force me to quit my business.

30. As my capital is fixed in buildings, ground, and machinery, for this business alone, I could not turn to any thing else; it would therefore be ruin to me, and an injury to the community.

34. If any reduction on the present duties should take place, it will stop mine and all other similar establishments in this country.

I remain your humble servant,

JEREMIAH HORROCKS.

*April 11, 1832.*

## DOCUMENT 13.—No. 13.

*ASTEN, April 13, 1832,*

GENTLEMEN: Your circular, post marked 26th ult., was received. I did not then consider that any particulars connected with my manufactory, or within my knowledge, could be useful to the honorable Secretary; and as some of the queries appeared to me improper, I did not feel bound to reply; but yesterday I received a communication from Mr. Prevost.

(dated Harrisburg, 3d April,) requesting me to direct to Mr. Biddle a copy of a brief statistical report of the manufactures of this county as taken in the past autumn, and forwarded to the New York Convention. I cheerfully comply with his request, and herewith inclose a copy. I also send replies to your circular queries.

Very respectfully yours,

JOHN P. CROZER.

M. CAREY & C. C. BIDDLE, Esqs.

*Answers to Messrs. Carey and Biddle's Circular.*

1. Delaware county, Pennsylvania.
2. Cotton spinning mill, driven by water:
3. Established in 1825—owned then as now, by J. P. Crozer; original investment about \$15,000, in grounds, buildings, water power, and machinery.
- 4 & 5. The amount of machinery has been increased from year to year; in 1825 about 1,000 spindles, at present near 3,000 do.; consequently no average of materials or amount of wages could be useful; but to take a given year, say from May 16, 1830, to May 14, 1831, the amount of raw cotton consumed was 383 bales, 129,065 lbs., cost \$14,280 41. The wages paid to hands employed in the factory \$5,168 21; wages paid to mechanics in building machinery, including sundry expenses such as freight, carting, oil, leather, and a long list of small items, \$3,757 62.

6 & 7. The annual rate of profits varies much: parts of the years 1829 and '30, competition had entirely destroyed the profits of cotton manufacturers, but towards the close of this period cotton goods and yarns were shipped abroad to some extent, and this assisted to diminish the redundancy; and manufacturers hitherto having directed their attention to a few descriptions of goods only, were gradually led to greater variety, and the business thus gradually revived.

As it respects borrowed capital, it must be evident that no possible difference can exist between the profits on borrowed and other capital after charging interest on each, which should be done before profits can arise; and as to the profits upon other branches, I am unable to determine accurately. The protection extended to paper in 1824, appears to have been adequate. The late introduction of machinery into this branch has given great facility to production; and from the little manual labor now requisite, I believe the trade is quite secure from foreign competition.

The woollen establishments of Delaware county have not languished. An extensive flannel factory appears in a most healthy condition, yet the woollen manufacturers complain much of the injurious effects of the last tariff.

9. Cotton yarn, No 15 to 33.
11. None of similar character imported.
12. Fifteen men, \$7 50 per week; sixteen women, \$2 25 per week; and above twenty children, at one to two dollars per week.
13. Twelve hours per day all the year.
14. In other branches the workers seldom are employed so many hours; mechanics and tradesmen are here paid about the same as above, in proportion to the time they work. The same remark will apply to female labor, as also to the labor of children.
15. Two or three horses employed.
16. There are power looms in the neighborhood which consume part of the yarn; the balance is sold in Philadelphia to hand loom weavers.
17. No foreign competition in yarns.
- 18 & 19. In 1829 some small orders were filled to send to Mexico of yarns No. 22 to 26.
20. Yarns are usually sold at a credit of four months.
21. The cost has decreased, excepting when the raw material had advanced in price; the improvements continually making in machinery has lessened, in a greater or less degree, the cost of spinning in each successive year.
22. In 1821 the usual price of yarns No. 20 was 47 cents per lb., in 1830 the same descriptions were sold regularly at 20 cts. per lb., and at present the price is 25 to 27 cents per lb. The raw material did not vary more than two cents per lb. in these three periods.
23. If foreign cottons were never sold here at a sacrifice, it is confidently believed that no protecting duty would be necessary in coarse cotton fabrics—say all goods made of yarns No. 20, and under. But even the present duties do not always exclude importations of low priced cottons; and at the present time we feel the effects of extensive auction sales of British cottons sold at a price which but little more than pays duties and expenses of importation.

## DOCUMENT 13.—No. 13—Continued.

25. The rate of profits for the last three years, taken together, has been about eight per cent., exclusive of interest charged upon the whole capital, and about two-fifths of this amount has been expended in additions to machinery.

26. The raw material is something less than one-half the value of the yarns I spin; the wages in factory about one-fifth; the current expenses of repairs, oil, out door labor, &c. &c., are about one-tenth; and from the balance is to be deducted the interest of capital, &c.

27. A sufficiency to maintain 105 persons, large and small, using plenty of wholesome food and decent apparel.

29. The foreign yarns and goods which would be sent here and put off at forced sales, would, I have no doubt, compel me to abandon my business.

30. I have not reflected upon this contingency—my capital would undergo a great diminution if the business could not be sustained—the machinery would be of no value.

31. I think there are few pursuits so uninviting as cotton spinning would then become.

The remaining queries I am not fully informed upon, No. 33 excepted, which number I purposely pass over. So far as it concerns myself, I might answer it with safety; and with this assurance I the more freely enter my protest against interrogatories of such a bearing, how respectable soever the authority may be from which they have emanated, especially as I can conceive of no good which could result were replies given on this delicate point by every manufacturer in the country.

With great respect,

Your obedient servant,

JOHN P. CROZER.

M. CAREY, C. C. BIDDLE, Esq.

## DOCUMENT 13.—No. 14.

PHILADELPHIA, March 26, 1832.

GENTLEMEN: The following is respectfully presented to you in reply to your circular of the 22d instant.

Your most obedient,

JAMES RONALDSON.

Messrs. MATHEW CAREY and CLEMENT C. BIDDLE, Esquires.

1. A mill, Delaware county, Middleton township, on Ridley creek, Pennsylvania.
2. Altogether employed in spinning cotton into yarn, and with water power.
3. Established in 1821; a private concern.
4. Real estate, viz. land, houses, water wheel, geerings, &c. about - - \$14,000
- Machinery - - - - - 18,000—32,000
5. At a loss to understand this query; but, for the active capital, from \$4,000 to \$5,000 is required to buy cotton, pay wages, and pay for a variety of articles, such as leather, oil, iron, &c. &c.
6. There is no borrowed money. If half the capital had been borrowed, its interest would have crippled the concern. In 1830, the profit on the whole investment fell short of three per cent.; in 1831, it was ten per cent., and the average is about eight; though my sales are generally cash, there are constantly occurring bad debts.
7. Fluctuation in imports, price of cotton, and an irregularity in demand, caused by the effects of the importation being in excess, or short of the demand, the irregularity of the production and price caused by this, becomes cause, and affects the price beyond the mere period, &c. of the excess or defect.
8. This is a question beyond my capacity to answer.
9. Cotton yarn is the only article made, and it is of a superior quality: this is produced by using very good cotton, and, in place of working the waste into the yarn, it is sold to the citizens at a low price, and employed by them in padding bed covers, &c. &c. Now, this query, correctly answered, is to put the querist and his readers in possession of all the knowledge, minutia, and data, that has been acquired and accumulated in ten or eleven years. The querist asks, in another place, how much material do you use, and how much goods do you produce? From correct answers, he would find 13 per cent. of cotton bought, and not accounted for in goods; the querist would conclude he has made the witness convict himself: the value will average, per annum, \$14,500, and the gain as stated in reply to No. 6.

## DOCUMENT 13.—No. 14—Continued.

10. From 150 to 170 bales New Orleans cotton, oil, leather, &c., gross value \$8,500. Of foreign cotton, I have only used two lots from the island of Margarettia; it proved an excellent long staple, and made strong yarn, and its value had been much injured in consequence of not having been properly ginned or cleaned, and the import duty made it rather too high.

11. I know of no cotton yarn so coarse, and made of such expensive cotton, as that I spin, imported.

12. Men and boys at this moment 10, women and girls 16: we are not partial to employing children, and the proportion will be, men 5, boys 5, women or grown up girls 5, second class 11; average wages of males \$12 per month, females \$8.

13. Working hours throughout the year, say 70 a week, summer and winter nearly the same, that is, 11½ hours a day, and really this is as much as the people should work.

14. Cannot reply to this; only I know that, in consequence of our men losing no time from bad weather, want of jobs, and at fifty cents per day, the old men and youths thrive better than on a farm or at laboring work and job work. Indeed, in this establishment, one family whose father is a mason, and another family whose father is a country carpenter, has been supported by them all last winter: the men were out of employment.

15. A neighboring farmer wagens into Philadelphia all the yarn, and out all the coals, cotton, oil, leather, &c.; and for this receives nearly \$300 per annum.

16. A portion of the yarn is sold to country weavers, and the remainder is sold in Philadelphia, distance 15 miles.

17. Foreign articles of the same kind never were imported into the United States; no foreign spinner employs cotton of the same quality in making such coarse yarn: what I use is that they spin into No. 60 to 80.

18. What yarn is not sold in the country at the mill is wrought into cloth, suspenders, webbing, &c. in Philadelphia.

19. What becomes of the yarn after it is made into cloth, &c. I do not know.

20. The sales are principally for cash, and the remainder on short credits, and on these there are occasionally losses. No barter.

21. There has been a reduction in the price of cotton; the wages remain much the same; some improvements have been made in the manufacturing processes; and, though the decrease of price has been considerable, I have no account of its progress.

22. In 1822, No. 16 was at 40 cents per pound, in 1830, 18, and now is 26 and 27.

23. Very few even amongst merchants are aware of the extent to which expert and skilful workmanship can, in the fabricating of *cotton goods*, be substituted for a good quality of cotton; so in this the British manufacturer is greatly the superior of the American, and the humbled state of the work people in England is so great that their necessities compel them to put forth a degree of care and effort the American laborer will not submit to; this greatly favors the Englishman making goods of a fine appearance out of bad materials. In the next place, the state of laborers in England is such that necessity compels them to live on the least possible quantity of the necessities of life, even during their prime. This fortunately is not the case in the United States. This gives the British manufacturer another advantage; and the paper currency of the United States causeth all their productions to come into market loaded with a higher money price than they would, in the absence of this paper money, have had. All these concur to favor the foreigner; and it appears that it has only been by repeated essays the statesmen of this country have come near to it. Judging by effects, it appears the present duty is sufficient. If all the duties were payable in cash, and the credit system given up, a reduction of four or five per cent. would do no injury to the spinner of yarn.

24. Cash duties should be substituted for the credit system.

25. This is answered in reply to No. 6. The concern is private.

26. This is so variable it is not easy to reply to the question. In 1830, at times, the material and wages cost more than the article sold for; the same was the case in 1825, when cotton rose so high; and in both cases, but for my feeling towards the laborers, the mill would have been stopped.

27. Cotton, the produce of the United States, with the exception of two parcels of Margarettia, which is a fine long stapled cotton, badly cleaned, and that made extraordinary strong yarn. Cotton \$8,500. Leather, oil, nails, iron, &c. &c.

28. Cannot tell.

29. If the duties are reduced to 13½ per cent.—except Congress can persuade us to live on nothing, for our condition would be worse than that of the English ever has been—we would stop, which would be better than working for the consumers at less than cost.

30. If I abandoned my business, I would take the capital to some more favored country as soon as possible.

## DOCUMENT 13.—No. 14—Continued.

31. Usury, shaving notes, speculating on the misfortunes of others, slave dealing, banking, &c.

32. I am not acquainted with the matter referred to in this "leading" question, but perceive a correct understanding of it must be of great importance to speculators and store-keepers, and if I thought it of importance to the statesman, I would try to find out the diameter of the certain circle round Kiskiminetas, &c.

33. The amount of capital is stated in reply to No. 4, and the borrowed is in the ratio of 0 to 32,000.

34. The common rate of interest is six per cent., and, as per reply to No. 6, eight is got; which is two per cent. for personal labor, risk of trade, &c. &c., and the compiler of this query may be capable of calculating the effects of general and special reductions of duty, but I am not; and, as respects reduction, by all means let it be instant, so that the people may not be cheated into their state of poverty. An instant reduction will be understood by every one, and, in a republic like this, every thing, every act, should be fair and honest.

35. I am not merchant enough to understand or answer this.

36, 37, 38, 39. Reply as above.

40. In this query is the compensation of lawyers, doctors, divines, players, members of Congress, senators, presidents, secretaries, governors, &c. &c., as well as ploughmen, manufacturers, laborers, tradesmen, men, women, and girls included. If all these are alluded to, the question is too intricate for the majority of society; and surely the inquisitorial compiler of these surveillance forty queries could not limit them to a pry into the state of the manufacturers. Such a thing would be anti-democratical, anti-republican, and beneath a member of Congress who had a respect for his character as a statesman.

JAMES RONALDSON.

## DOCUMENT 13.—No. 15.

BROWER'S FOUNDRY,

*Philadelphia, April 10, 1832.*

SIR: We would cheerfully lend our aid, by furnishing such answers to the queries which relate to our establishment as would enable you to report such facts as are necessary to a full knowledge of the manufactures of the United States, but would beg you to excuse us from a task which we cannot perform with satisfaction to ourselves, nor benefit to you.

As it was established in 1831, and as yet conducted with no regular and fixed capital, and the quantity of manufactures produced small, we cannot ascertain with any certainty the profit that will arise from the investment, and being unacquainted with the duties on foreign importations of a similar nature, we cannot tell what duties would be necessary to enable us to enter into competition with similar imported articles; consequently we cannot furnish any correct answers to the more important queries. We deem it, therefore, more proper merely to state the quantity, kind, and price, at which we sell our manufactures.

Fifty tons of castings have been manufactured since the commencement.

Railroad wheels, and hollow ware, being our most extensive manufacture, for which we find a home market, at \$70 per ton. Wagon-boxes, machinery, &c., a home market, varying from 90 to \$100 per ton.

We do not wish to be understood to withhold any information that would tend to a fair and proper adjustment of the tariff. We hope such a system will be adopted as will enable us to continue our business to advantage, and tend to the advancement of the public interest.

We are, gentlemen, very respectfully,

Your obedient servants,

BROWER, TEMPLIN & CO.

Messrs. CAREY and BIDDLE.

## DOCUMENT 13.—No. 16.

*PHILADELPHIA, March 30, 1832.*

GENTLEMEN: Agreeably to your request is subjoined a statement of the Globe Mill establishment, located in the district of Kensington, Philadelphia county, State of Pennsylvania, owned by Craige, Holmes and Craige.

## DOCUMENT 13.—No. 16—Continued.

Two steam engines and a water wheel, 45 horse power.  
 Three buildings, built in 1810, 13, and 16, in which there are 47 looms for manufacturing girth web, 9,126 spindles.  
 Numbers of yarn spun from 14 to 20, average 16.  
 Cloth made annually, thirty thousand pounds.  
 Cotton manufactured annually, five hundred and eighteen thousand one hundred and seventy-four pounds.  
 Fifty-two barrels flour used.  
 Coal consumed, fifteen hundred tons.  
 Oil consumed, one thousand gallons.  
 Tallow used, thirty-one hundred and twenty pounds.  
 Capital two hundred thousand dollars.  
 Forty-two males employed, average wages \$8 50 per week.  
 Eighty boys do do 1 37½ do.  
 Seventy-two women do do 2 62½ do.  
 One hundred and ten girls do 1 57½ do.  
 Under 12 years, ten.  
 Apprentices have one quarter's schooling annually.  
 There is used in the manufactory, not enumerated, such as castings, blacksmith work, cards, white lead, nails, files, &c. &c., upwards of eight thousand dollars annually.  
 CRAIGE, HOLMES & CRAIGE.  
 Messrs. M. CARRY & C. C. BIDDLE.

## DOCUMENT 13.—No. 17.

*Morton and Henry Coate's Nail Manufactory.*

| QUESTIONS.                                                                                                                       | ANSWERS.                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                        | 1. Pennsylvania, Chester county, 25 miles from Philadelphia, on the Schuylkill river.                                                     |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                             | 2. Rolling mills and nail manufactory; water power; eighty horse power employed.                                                          |
| 3. When established; and whether a joint stock concern?                                                                          | 3. Established in 1829. Private.                                                                                                          |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                  | 4. About seventy thousand dollars.                                                                                                        |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                 | 5. Iron and coal about \$62,000; wages about 18,000 dollars per annum.                                                                    |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                          | 7. Profits decreased from competition.                                                                                                    |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?  | 10. Nine hundred tons Pennsylvania bloom iron; 300 tons Virginia and Pennsylvania bituminous coal; 200 tons Anthracite Pennsylvania coal. |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                  | 11. No cut nails imported; number of men employed 60; wages \$1 to \$1 50 per day, piece work. Population supported about 200.            |
| 13. How many hours a day employed? and what portion of the year?                                                                 | 13. Rolling mill runs day and night; nail factory from sun rise to sun set in summer; from sun rise until 8 o'clock in winter.            |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries? | 14. Out doors work 75 cents per day.                                                                                                      |



| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. One horse and boat of 40 tons employed on the canal.                                                                      |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. Nails sold in Pennsylvania and New Orleans.                                                                               |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Sold at 4 and 6 months' credit.                                                                                           |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                | 21. The article has decreased 20 dollars per ton, from the cheaper rate of iron and coal, and improvement of machinery.       |
| 24. Is any change necessary in levying or collecting the duty on such articles, to prevent fraud?                                                                                                                                                                                                                                          | 24. None.                                                                                                                     |
| 25. What has been the rate of your profits annually for the last three years; and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and, therefore, not divided out annually? | 25. Private concern.                                                                                                          |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of the capital?                                                                                                                                                           | 26. Cost of blooms, \$65 per ton; nails \$120 per ton; labor about \$17 to \$20 per ton.                                      |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                       | 28. Amount of nails manufactured in the United States estimated at 40,000 tons. Pennsylvania about 7,000 tons.                |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                   | 29. The business would have to be abandoned, as, at times, the market would be glutted from Europe.                           |
| 32. Are not the manufactures of salt and iron, remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                                                                                               | 32. The canals and railroads of this State would enable the imported article to be sent to almost every part of the interior. |
| 37. Proportion which the production by the American manufacture bears to the consumption?                                                                                                                                                                                                                                                  | 37. No cut nails imported.                                                                                                    |

PHILADELPHIA, April 14, 1832.

## DOCUMENT 13.—No. 18.

PROVIDENCE, DELAWARE CO., PA., 4th Month 10th, 1832.

**ESTEEMED FRIENDS:** I herewith return the circular you sent to John Bancroft & Son, containing the forty queries put forth by the Secretary of the Treasury, without particular answers to any of them; but think it best, on account of myself and son, to furnish you with the following account of my affairs and views; and which I shall feel obliged if you will put into the hands of the Secretary of the Treasury.

About ten years ago I came to this country, bringing with me a family of twelve children—seven sons and five daughters; all brought up to be very industrious, from the oldest to the youngest; the oldest at the time being twenty years of age, and the youngest seven years old. In Great Britain I rented a large farm, upwards of three hundred acres, under Sir W. W. Wynne, and at the same time was in business extensively otherways with my brother; that for the last eight years we were in England, my capital, notwithstanding the greatest care and industry, kept growing less and less, owing to the heavy burdens we had to bear in the way of poor rates, tithes, and the fluctuation in the prices that grew out of the paper currency and credit system, &c.; and I well know it was the case with thousands, as well as myself; and for the last three years I was there, notwithstanding the corn laws to enable the farmer to pay high rents, tithes, poor rates, &c., I lost more on my farm in the lowness of prices for agricultural produce, and sale of my stock, than would have bought a good farm in this country. That being the case, I thought it best to emigrate, for the future benefit and comfortable settlement of my children, more than for myself; and when we left our native country to come here, I may say we had the general good wishes and prayers of the whole neighborhood for our welfare and comfortable settlement; and many said they did not know a family more suitable to go to America, or more likely to succeed well there. Well, when we arrived here, we intended to go to farming, I having a number of relations farmers (whose forefathers came to this country) settled on farms of their own in Bucks county, Pa., but they all advised us not to go to farming, as being an unprofitable business; but, as my children were very suitable to engage in the manufacturing business, to look out for a suitable situation, and proper person in one of my countrymen, and go into that business, and that we should make better out in that than in the farming business. I did so, and am now, and have been all the time since we came to America, except the first nine months, engaged in manufacturing flannels only, of every description; and as I had one son brought up in the manufacturing business in the heart of the flannel manufacturing district in England, near Rochdale, in Lancashire, we have brought our concern now to be the first in the United States, and our goods, where they are known, are preferred to the imported flannels; four years ago, that is, in 1827, we obtained the medal at the exhibition of the Franklin Institute; and we have now in employ about 120 hands, most of them the best workmen, partly from England: these have come here to escape the oppression of being obliged to work for less than the necessities of life; and as the English corn laws would not let them get a sufficiency of bread, they are come here to earn and to eat it, and they make the American farmer a market at home. Perhaps if the policy of this Government was certain, and not vascillating upon the subject of protection to her own industry and internal improvements, it might be the best for me and my family eventually that we engaged in the way we have done: *but I can with the greatest truth say*, that, had I, or we, engaged in the farming business, and used the same industry as we have in making flannel, we should have made more money in that business than we have done in this. I value the institutions of this country more than many of the present race of Americans, I think, and would be very sorry that either designing individuals at home, or foreign policy abroad, or both united, should weaken or divide the Union, or destroy so good, simple, and cheap a Government. And it does appear very strange to me, that with honest men there should be two opinions what is the right course to pursue. The course that many are now pursuing is exactly such as foreign governments, who would like to see this one destroyed, wish to promote; and many leading men could not act more in favor of foreign policy, if they were really elected in England, and sent by her to promote her interests, and retard the growth of America. The Government of England sees and knows that if this country is wisely governed, she will not only lose her best customer, but that eventually this country will supplant her, and be able to take her place in supplying her other customers; because, though the working class here are well paid, while hers are ground down to subsist on the lowest pittance; yet here, having no expensive establishments to support, and land so cheap, this country would, in a very short time, comparatively speaking, take the place of England in supplying her other customers, and cause, eventually, the employment of American shipping to increase, instead of diminish, as represented in the address drawn up by the late Attorney General at the Free Trade Convention in Philadelphia. She sees this, and consequently will spare no pains to cause a division of the Union, and prevent internal improvements, which would draw the interests of the country together, and which, by a wise policy, would cause this country to grow rapidly in wealth

and resources; and could be done so easily, and never felt as a burden at all to the nation, but would soon be found a source of great wealth, diffusing life and vigor through every part of the nation. There is room here for all the industrious bees from England, who would certainly come to enrich this country if a right policy were pursued. I know many capitalists there have been long looking towards this country, but the uncertain policy pursued by the Government made them waver in their determinations; and some of this description, who have actually come over to judge for themselves before disposing of their concerns, have concluded to remain in England. Many have desired me to write them what the prospects are, being very desirous to come, seeing themselves gradually sinking in England; but I have not felt myself warranted in pressing upon them to come, seeing the difficulties many have to contend with. I see clearly how the wealth and strength of England might be brought here, and to the great benefit and comfort of thousands of her very valuable capitalists and their industrious workmen. How can the American farmer look for an improvement in his business, while so many thousands employed in that business are every year coming from England and other parts of Europe, and adding to that branch of industry, if he do not have his own manufacturers so effectually secured and protected as to find him a certain market at home?

The policy advocated by the south would involve the whole country in ruin, and would not benefit themselves at all. If their situation is bad, it would certainly make it worse. If manufactures are prostrated, I shall not be afraid of getting bread, so long as I am willing to labor; but as I have frequently said to my workmen, when we have been getting improved machinery, and some of them have been afraid of being thrown out of employment, I was obliged to do so, unless they could prevail upon England to lay her improvements aside, or else quit the business altogether, and go to something else myself, as well as them. And in such a case, I could see nothing so certain of supplying us with bread as the farming business, bad as it is or would be; but in that case we should weaken and destroy our comforts without benefitting England in any other way than preventing this nation from becoming her rival; for we certainly in that case should not want, or at least not be able to purchase goods from her, though we might not want bread; and on that account my family, even then, would be better off than thousands in England and Ireland, and we should be better off in that respect than if we had remained in England.

Something in this way appears to me the best answers I can give to the queries proposed; and I conclude by saying, I think it would be a good thing if the Farewell Address of the great Washington, on resigning his Presidency, was read *annually at the opening of every session of Congress*. I shall regret greatly if the extraordinary blessing designed by Providence to mankind in the establishment of so excellent a Government, should be frustrated by wicked men, and which I ardently desire may by some means yet be prevented.

On reading over the preceding, I have concluded that it is proper I should take a more particular notice of the questions the circular puts to me.

The business I am engaged in, viz. the flannel business, in the extensive way I am now in, requires considerable capital more than I have, and it would not be agreeable, indeed it might be imprudent, and certainly humiliating, to state how much I have borrowed. In the next place, correct answers to all the questions is far beyond my knowledge and capacity. With respect to those that especially apply to my own business, correct answers would be of more importance to the English Government than to an American member of Congress. It would make the foreign manufacturer and his government acquainted with the weak points of our situation; and without having any unkind feeling towards my native country, or any other country, still I do not wish to furnish them with that knowledge which might lead to bad consequences to myself and family.

This trade has undergone a surprising revolution within a very short period, every one is it acquiring further knowledge, and no one inclined to communicate his own discoveries and improvements to the others; and some of the processes now in use in the United States are superior to those practised in foreign countries: and it is not desirable to call the attention of foreigners to them, because these foreigners, in the matter of wages, have decidedly an advantage over us, and the improved processes would, if brought into their service, increase the advantages. If a steady policy by Congress is not pursued to support American industry, I had better never have engaged in this business; and if I am obliged to relinquish it, only think of the loss that will ensue in the sale of property of such description, factories, water power, and machinery; for who will buy, or at what prices, if we ourselves cannot make the business answer?

All which I respectfully submit to your and the Secretary of the Treasury's serious consideration, and with the best wishes, not for my own prosperity as an individual particularly, but for the whole United States of this highly favored nation, and that its union may continue to the remotest period of time, I subscribe myself, your very sincere friend,

JOHN BANCROFT.

MATTHEW CAREY and CLARENCE C. BIDDLE.

N. B. As follows is a statement of my establishments, as they will be in operation in a very short time, as some of our machinery is not fully in operation in a large new factory just erected last year.

|                                                                                     |   |   |   |    |     |           |
|-------------------------------------------------------------------------------------|---|---|---|----|-----|-----------|
| Factories, dwellings, and water powers                                              | - | - | - | -  | -   | \$60,000  |
| Machinery                                                                           | - | - | - | -  | -   | 41,000    |
| Average stock of wool and goods on hand                                             | - | - | - | -  | -   | 80,000    |
| Persons employed—males, under 16 years old                                          | - | - | - | 12 |     |           |
| do 16 and under 21                                                                  | - | - | - | 6  |     |           |
| do 21 and upwards                                                                   | - | - | - | 42 |     |           |
| females, under 16                                                                   | - | - | - | 10 |     |           |
| do 16 and upwards                                                                   | - | - | - | 50 |     |           |
|                                                                                     |   |   |   | —  | 120 |           |
| Number of persons in families exclusive of the above, but maintained by their wages | - | - | - | -  | -   | 130       |
|                                                                                     |   |   |   |    | —   | Total 350 |

Who consume annually, besides all other agricultural produce, &c. about 375 bbls. of flour.

We have twenty double carding machines, which will card about 5000 lbs. of wool every week. We use all American wool, and which, at the price we paid for wool last year, would amount to the sum of \$156,000 for one year, which all goes to the farmer; our wool last year averaged 60 cents per lb. From past experience, I think myself warranted in saying, that so far as the expense of manufacturing wool into flannel enters into the price, that it will in the course of a few years be less, and still the work people be comfortably fed, as good and industrious people should be.

### DOCUMENT 13.—No. 19.

ANALOMINK FORGE, NEAR STRONDSBURG,

Northampton County, April 3, 1832.

GENTLEMEN: In answer to the circular addressed to us, we hasten to annex the following answers to the queries therein proposed, and which, as far as lies in our power, we have given with candor and fidelity.

Hoping that the information thus elicited may tend to an equitable and permanent adjustment of the tariff, we remain, very respectfully,

HENRY JORDAN & CO.

Messrs. CAREY and BIDDLE.

1. Pennsylvania, Northampton county.
2. Water power; a six fire forge and three hammers; refinery of pig metal.
3. 1829, '30; an individual concern.
4. Thirty-six thousand dollars.
5. Whole amount \$22,000: materials \$12,000, and labor \$10,000.
6. Has not been ascertained—(not over 10 per cent.) on borrowed capital 4 per cent. &c.
7. Domestic competition, cause of decrease.
8. In our county 10 to 12 per cent.
9. \$27,000; bar iron, superior.
10. 450 tons pig metal, valued at \$30 per ton, \$13,500; 100,000 bush. charcoal, at 5 cents per bush. \$5,000—all domestic.
11. Unknown.
12. 75 men, average wages 75 cents per day; subsisting 400 persons.
13. 10 hours during the whole year.
14. In our county similar; in others unknown.
15. 40 horses and mules.
16. At the forge a market for 50 tons; remainder in New York.
17. Best Russia and Swedish; to a large extent.
18. In the vicinity of the forge, in New York city, and Connecticut.
19. Uncertain.
20. Neighboring market, cash; in New York at four months' credit.
21. Rather decreased; from the materials and labor; the establishment too new to say at what rate.
22. Superior quality at \$90 per ton.

23. Thirty per cent.
24. We presume not.
25. Answer as in query 6th. \*
26. Wages 12½ per cent.; raw materials 58; profit on capital 10 per cent.
27. Grain, pork, hay, &c., to amount of \$5000.
28. Unknown.
29. Give it up at once.
30. It would be more than half lost; the lands are valueless, unless for our purposes; and water power here is in no demand.
31. Any other business would be better.
32. We presume so, where the cost of transportation is \$20 per ton.

The remaining questions, we presume, are more applicable to cotton manufacturers. The pig metal is drawn from our furnace in Warren county, New Jersey, about nineteen miles from this place. The charcoal is produced in our immediate vicinity.

### DOCUMENT 13.—No. 20.

*Answers by Wagner & Brother to queries of the Treasury Department, Philadelphia, 17th April, 1832.*

1. At Manayunk, Philadelphia county, State of Pennsylvania.
2. Cotton factory, containing 4900 spindles, moved by water power.
3. Built in 1822; is not a joint stock company.
4. Seventy thousand dollars.
5. Sixty-eight thousand one hundred and twenty-nine dollars.
6. Commenced the business in 1828. From 1828 to 1831, after deducting interest on the capital employed, there was no profit. In 1831 the profit was about five per cent. exclusive of interest.
7. The general prosperity of the country in 1831.
8. Supposed generally to be better than our business.
9. Average about 180,000 lbs. of No. 20 cotton yarn, value \$54,000. During the year 1831, the value of domestic goods manufactured, such as checks, gingham, &c. was 65,625 dollars.
10. Foreign materials used, indigo and dye stuffs, amount \$3,800; domestic materials, 200,000 lbs. cotton, amount \$20,000.
12. 15 men, average wages per week \$7; 65 women and girls, 46 boys, average \$1 50—employed in process of spinning; 268 persons employed in hand loom weaving, and the process of winding, spooling, warping, dyeing, &c., whose wages amount, per annum, to \$27,809.
13. Twelve hours during the year.
14. Not known.
15. One horse.
16. No. Six miles.
17. The fluctuation in price of foreign fabrics affect relatively the kinds made here, and in proportion to such changes.
18. Through the United States, and in South America.
19. Principally to South America, Africa, and China.
20. Cotton yarn is occasionally sold for cash, but most generally on a credit of 4 months; domestic goods on a credit of 6 and 8 months.
21. In the year 1831 rather appreciated; principally in labor.
22. In 1829 and 1830 prices were depressed; they improved in 1831, and are again on the decline, and nearly as low as in 1830.
23. On cotton yarn, not less than the present rate of duty; on the description of goods made by us (average cost 11 cents per yard) might be protected by a less duty in a regular trade, but the present rate of duty is necessary to prevent a glut of foreign manufactures.
24. No; the present mode is judicious.
25. For profit see answer to question 6th. It is a partnership concern.
26. The value of the raw material in our manufactures constitutes 22 per cent.
 

|            |   |   |   |   |    |    |
|------------|---|---|---|---|----|----|
| labor      | - | - | - | - | 56 | do |
| dye stuffs | - | - | - | - | 14 | do |
| profit     | - | - | - | - | 8  | do |

- 27. Uncertain.
- 28. Not known.
- 29. It would cause an abandonment of the business.
- 30. Probably half of the capital would be sunk; the employment of the balance would be uncertain.
- 33. Amount of capital \$55,000; exclusive of investment in buildings, machinery, and land attached to factory; no part borrowed.
- 34. At present the capital employed yields no interest adequate to the amount and risk, and apprehend any reduction of duties whatever would endanger the stability of the business.
- 35. Would vary according to the cost or value of the goods.
- 36. The square yard duty being in our estimation the best, any change would be unfavorable.
- 37, 38, 39, 40. Means of answering not in our power.

## DOCUMENT 13.—No. 21.

*Washington Mills, Philadelphia County, Wistar & Fisher.*

GENTLEMEN: We with pleasure reply to some of your queries, but ask your especial attention to the latter part of our statement.

- 1. Wakefield Mills, Philadelphia county, 5 miles from Philadelphia.
- 2. Woollen manufactory; satinets and cassimere; water power.
- 3. Established in 1810; ourselves only interested.
- 4. 35,000 dollars invested in buildings and water power; 18,000 dollars invested in machinery.
- 5. To answer this question we give an estimate of 1830 and 1831. In 1830 we did full work, wool being at a fair price; in 1831 wool was so high that no woollen concern in the country made interest of money; we stopped our mills to prevent loss, and used but one-third our usual quantity of wool.

1830.

- 35,000 dollars worth of wool, generally mixed merino, washed on back, costing about 35 cents per pound.
- 9,000 dollars in dye stuff, cards, oil, leather, lumber, &c. &c.
- 12,000 dollars in wages.

1831.

- 10,000 dollars worth of wool, costing about 55 cents.
- 3,000 dollars in sundries.
- 4,000 dollars in wages.
- 6. A small part only of the capital borrowed, and the business has not averaged interest of money for several years.
- 7. Profit increased or decreased by excessive fluctuations in the price of wool, and excessive importations of woollen goods.
- 8. Uncertain; no business worse or more fluctuating than the woollen manufacture since we have been engaged in it.
- 9. From 100,000 to 120,000 yards. The value has changed so much in ten years that we can make no average; goods, satinets, worth ten years ago 140 cents per yard, can now be bought for 60 cents.
- 10. From 10,000 to 100,000 lbs. wool.  
Do 500 to 6,000 lbs. cotton twist.  
Little or no foreign products except wool.
- 11. No satinets imported; the English do not understand their manufacture, or they would be imported lower than we could make them, as wool is so much lower with them.
- 12. Men's wages 70 cents to \$1 per day.  
Girls' do 30 do to 50 cents per day.  
Children do 15 do to 30 do do.  
Near three hundred men, women and children, supported by us when in full operation.
- 13. The average 12 hours.
- 14. Wages below the average mechanic wages; lower than the New England wages in many departments, and higher than English wages by 50 to 60 per cent.
- 15. Two horses and one pair oxen.
- 16. Sent to Philadelphia, New York and Baltimore.

17. Foreign articles of different descriptions enter into competition, principally from the high price of wool and labor in our country, compared to prices in England.

18. In this country.

19. Very few if any domestic woollen articles exported, and they never can be till wool is given to the manufacturer bearing some comparison to the prices in foreign countries.

21. The price of the manufactured article is about one-fourth what it was 15 years ago: their cost to the manufacturer has decreased very much, but not in the same proportion.

23. The rate of duty established we believe to be altogether sufficient, provided it is collected without fraud, nay, more than sufficient, provided the duty on coarse wool is reduced. We suggest admitting all wools costing ten cents and under free of duty, and putting all other wools at a duty of ten per cent. below the duty on woollen goods. In this way the cost of low wools for the south will be reduced below what they can be imported for from any country. Some frauds may be committed, but they will be more easily detected than on goods. The farmers may at first complain, but with the present prices of wool and wools a general ruin must ensue to all engaged in either branch of the business. The price of wool to the woollen manufacturer must be lowered, or duties on the imported goods will be vain, as the business in its present state cannot be continued. Make the importation of low wool free of duty; it will fill up a certain quantity, relieve the manufacturer to an extent which no increase of duty ever can accomplish.

We believe that a duty of 40 per cent. on goods with this important change (of admitting low wools free) would be better than 60 per cent. to the manufacturer without it, and more permanently useful to the farmer. Last year wool rose to a price beyond what the manufacturers could pay; importations ensued. There is now no sale, even at a reduction of 30 to 40 per cent.; on finer qualities more.

We know no woollen manufacturer who would not be glad, we believe without exception, to sell out and abandon the business if they could; such changes are equally ruinous to the farmer and manufacturer. Their business is now producing general and universal complaint, and has been many times in ten years as bad as it is now. The tariff of 1828 rather increased than decreased the evil, and a remedy we believe to be utterly hopeless while we do not raise a supply of wool equal to our wants, and while it comes to us 50 to 80 per cent. higher than in Europe. We believe making low wool duty free will tend to pacify all the parties opposed to the tariff, and be of the most essential benefit to the manufacturer and farmer of the middle States, and at once reduce the price of negro clothing, and wools for the working men of the country, below what they can be furnished by any nation in the world, and below any price that ever was heard of in this country, for an article made of wool.

We are, very respectfully, yours, &c.

WISTAR & FISHER.

WAKEFIELD MILLS, April 2, 1832.

To MATHEW CARRY, and

CLEMENT C. BIDDLE, Esquires.

## DOCUMENT 13.—No. 22.

NEW HORN, March, 1832.

GENTLEMEN: In compliance with the request contained in your circular of 22d instant, we hasten to reply to the queries therein to the extent of our ability.

We are, very respectfully,

Your obedient servants,

W. P. JENKS & Co.

Messrs. MATHEW CARRY and }  
CLEMENT C. BIDDLE, } Philadelphia.

## ANSWERS TO QUERIES.

1. Bucks county, Pennsylvania.
2. Cotton yarn; water power.
3. Established in 1824.
4. Building and water power, \$25,000; machinery, \$30,000.
5. 33,000 dollars.
7. Decrease of importations in 1829 and 1830.
8. Unknown.

9. 180,000 lbs. yarn, Nos. 18 to 20, averaging 23 cents per lb.
10. 200,000 lbs. cotton; \$21,000.
12. 17 men, averaging \$6 50; 16 women, averaging \$2; 30 boys, averaging \$1 25; 17 girls, averaging \$1 per week; all finding themselves.
13. 11½ hours per day the year through.
14. Men and women about the same rates. Children generally unemployed.
15. None at manufactory, 6 in transportation of yarn, &c.
16. Market at Philadelphia; 32 miles.
17. Little foreign competition in the article of yarn, (but goods.)
18. Principally in Philadelphia.
19. Small exportations to South America and East Indies.
20. Sales at average credit of 90 days.
21. No variation in materials or labor.
22. See No. 9.
23. The present rates are considered a protection.
25. Not exceeding 7 per cent.
26. Cotton one-half; wages 7-16ths; profits 1-16th.
27. Agricultural \$21,000. Other domestic 2,000.
28. Unknown.
29. A reduction of duty to 12½ per cent. would doubtless cause a suspension of manufacture, in consequence of the depression in prices consequent upon the flood of foreign importations which would ensue.
30. }
31. } Unknown.
32. }

## DOCUMENT 13.—No. 23.

OLD SABLE WORKS, DELAWARE COUNTY, March 31, 1832.

Messrs. MATHEW CAREY and C. C. BIDDLE:

GENTLEMEN: Your circular of the 22d instant came duly to hand, and, at your request, shall endeavor to answer some of the queries therein contained.

## ANSWERS TO QUERIES.

1. Delaware county, Pennsylvania.
2. Rolling and slitting mill, and nail factory; water power; also a weaving mill, which I rent to Lewis Phillips & Co.
3. Established in 1809; at present held by the subscriber alone.
4. Sixty thousand dollars.
5. 400 tons bar iron at \$80, is \$32,000; wages \$7,800 per annum.
6. Average clear profit about 8 per cent. in whole amount invested.
7. The profit is less than it should be, in such expensive works, power and attention required, owing to domestic competition.
8. Believe in most manufactures more than above stated.
9. Commencing in 1810 at about 100 tons, and now 400 tons nails per annum. Price in 1810, 10 cents; at present, 6 cents per lb.
10. 400 tons bar iron, mostly foreign previous to 1828. The last three years almost wholly American iron.
11. For the last three years, the price of American iron has been less than Russia or Swedish, English iron not answering the purpose for nails.
12. 26 men employed; average \$1 per day. Their families dependant.
13. 12 hours, including time for meals; constant employ.
14. Wages on a farm something less, except in harvest; but at other manufacturing employments about the same as above stated.
15. Seven horses.
16. The surrounding neighborhood is generally supplied with nails from my factory; the balance sold in Philadelphia or United States.
17. No foreign competition.
18. Principally in the United States.
19. A small proportion of nails exported to South America and the West Indies, British Isles excepted.



20. Sold at six months' credit, or bartered for iron or coal.

21. The cost of the article of nails has decreased, owing to experience in the business, improvement in machinery, and use of Anthracite coal. The quality of nails has also improved. They must, however, always bear a proportionate price to iron in another shape, the bloom or bar.

22. In 1810 nails were 10 cents; since then have been 5½, and now six cts. per pound.

23. The present duty is ample; perhaps a reduction of 20 per cent. would not injure the American manufactories.

24. Not any on the article of nails.

25. For the last three years the nailing business has been exceedingly depressed, and afforded little or no profit, with the exception of the last six months, it somewhat revived, but is again declining, owing to home competition.

26. Raw material (bar iron) costs about 4-6th; labor 1-6th, and incidental expenses 1-12th of the manufactured article.

27. About 3-4th of the whole amount of wages, say \$6,000, in agricultural and domestic productions.

29. It is apparent that at present our nail establishments could not be sustained, protected only by a duty of 12½ per ct. Suppose, for instance, (which I believe would be fact rather than supposition,) that foreign bar iron in Sweden, Russia, or England, cost £ 10 10 st'g per ton at par of exchange

|                                         |         |
|-----------------------------------------|---------|
|                                         | \$46 67 |
| Freight                                 | 6 00    |
| Commission, insurance, &c. 2½ per cent. | 1 17    |
| 12½ per cent. duty                      | 5 83    |

\$59 67

cost of a ton of bar iron when landed in the United States; a price too low for the American manufacturer, until we shall have entered more extensively into the business; and, if foreign competition would procure the manufacture of bar iron, it would, consequently, have the same effect on nails and iron in all its different shapes. But if the present duty on bar, bolt, hoop, and sheet iron, rods and nails, be continued (with some modification if you please) until capitalists and enterprising men, and of such there are many, feeling a confidence in the permanence and protection of the laws and Government, shall have embarked in the iron business, one of the greatest fields for capital that our country offers, and the production equal to the consumption of the United States: Then, perhaps, (and the time is not far distant,) a reduction of duty even to 12½ per cent. on iron, would enable the American manufacturer to meet foreign competition. Why does England produce iron cheaper than the United States? Not because we lack materials, skill, enterprise, or capital—is it not their immense establishments located to embrace all advantages; where iron is converted into almost any shape on the spot, and one transportation, by railroad or canal takes the article to market? How different in the United States or Pennsylvania at present? The ore is smelted at one place, the pigs transported 20 or 40 miles to a forge by team, there made into bar iron, and the expense of a second carting of perhaps as many more miles at equal expense, to a market, is incurred. The two transportations increases the cost of the iron to nearly the present duty of \$22 40 per ton. Anthracite coal will, no doubt, be employed in the manufacture of iron. A company is already incorporated by our Legislature to effect this great object. If successful, of which I have no doubt, with a suitable location, combining the advantages of ore, fuel, and a canal or railroad transportation, will shortly enable our countrymen to offer the indispensable article of iron as cheap and as good as any other nation. I have thrown together these crude ideas on a subject of great importance, and on which much might be said.

Very respectfully, yours,

HENRY MOORE.

# DOCUMENT 13.—No. 24.

CHESTER CREEK, March 28, 1832.

GENTLEMEN: Although we believe that some of the queries proposed in the letter which we have received from you, are very improper, inasmuch as they have a direct tendency to expose to public view a person's private affairs; and further, it is easily discovered they have proceeded from a source unfriendly to the manufacturers' interest; yet we hasten to answer them, in consideration of their being sent you, gentlemen, who are well known to have been the long tried friends of our country's best interest. We would, therefore, deem it highly improper to pass by your communication without noticing it. But we would wish to

mention a few thoughts that crossed our minds whilst reading these queries that have emanated from the Treasury Department. If we can gather any thing from the apparent bearing of them, the design is, first, to ascertain the least possible profit the manufacturer can, by any means, carry on with. Secondly, to find out the least possible wages the working class can live upon; and thus by measuring out and dividing a bare subsistence to each class connected with manufacturing, the protective duties could be lowered; the system of tyranny that disgraces the factories in England could be introduced; children would have to do the work that young women does now; young women would have to do the work that men does now; and bye and bye petitions would be carried into Congress (similar to the one Mr. Sadler took into the House of Commons a few months ago) "stating the cruelties practised on children in the factories." Gentlemen, the tariff cannot be lowered, unless the working class is reduced to the same state of degradation, poverty, and wretchedness, as they are in England; then, and only then, can the American manufacturer enter into the lists of competition with his foreign rival, or else there can be no manufacturing establishment carried on. Reduce the tariff, and at once you stop every cotton manufactory in our State. The business, with all the protection it has got, is very low at present. Several mills are stopped. Manufacturers find it hard enough to enter into competition, (favored as they are by the existing tariff) against all the unfair plans and schemes that surrounds the foreign manufacturer. Certainly, gentlemen, no individual can think of reducing the tariff, unless he associates with the same idea the loss of so much labor, which, by law, belongs to the operative part of the community, as much theirs as real or personal property would be. Reduce the tariff and unfurl the banner of "free trade," and then we'll have a beggared starving population, without a sufficiency to procure the necessaries of existence; and then we may lay on poor rates, build poor houses, erect penitentiaries, get an armed police, additional constables—standing army—erect gallowses, &c.; all this will follow in the train of the contemplated reductions in the protection of American industry. The spirit of every noble-minded citizen revolts at the idea of sacrificing our working population to the idol of foreign policy, or taking the bread out of the mouths of their children, and giving it to the supporters and menials of aristocratic tyranny. Gentlemen, you'll pardon us for obtruding these remarks upon your time.

With much deference, we respectfully remain your obedient servants,

SAMUEL & JAMES RIDDLE.

To Messrs. MATHEW CAREY, }  
CLEMENT C. BIDDLE. }

#### ANSWERS TO QUERIES.

Query 1st. State of Pennsylvania, Delaware county.

2d. A cotton spinning mill—individual property—water power.

3d. The factory was built and put in operation in the year of our Lord 1831.

4th. Capital invested in water power, \$7,000, buildings, \$10,000, machinery, \$16,000.

5th. It requires about \$40,000 in all to carry on the establishment.

6th. The machinery is owned by us; we rent the mill for \$1,000 per year. Any person acquainted with manufacturing knows that there can be no satisfactory answer given to this question. Sometimes the manufacturer carries on for 6 months, and makes nothing over the expenses of his establishment; other times he makes out better. Some years he does nothing like making a fair profit; other years he does better. The standard might be from 12 to 15 per ct. in the money for machinery invested. We have been manufacturing for three years. Cotton manufacturing is a very uncertain business.

7th. Large importations of foreign goods consigned to commission merchants upon very liberal advances, are made; these are afterwards sold at auction for what they'll bring, which always has a tendency to break the prices of the regular manufacturer, reduce his profits, &c.

8th. From 10 to 12 and 15 per cent.

10th. Quantity of cotton that we'll use per annum, will be about 180,000 lbs. at 10 to 10½ cents per lb.

12th. We work 12 hours each day, constantly, the year round.

13th. 16 men, from 8 to 10 dollars per week; 20 young women, 2 dollars per week, and fourteen 4 to 5 dollars per month.

14th. Nearly the same amongst other trades people.

15th. It will employ a team to do the hauling, 4 or 5 horses.

16th. Partly here and partly at Philadelphia, 19 miles distant.

17th. Our yarn being coarse, there is not much competition; but let me remark, that, to spin fine yarn is by far the most profitable; this the English manufacturer does for us. Our protective duties does not enable us to meet them in the market in fine fabrics. We have to spin and weave the coarse and less profitable article, while they reap the advantage of the finer.

18th. In the United States.

19th. None of it are exported.

20th. Cash and credit.

21st. These three years wages have kept the same. Cotton is as high as it was three years ago.

22d. 26, 25, 24, and 23 cents per pound, same description of yarn.

23d. Nothing less than the existing tariff, and an additional protection of 15 per cent., to enable us to manufacture finer fabrics.

24th. It is believed that both the woollen and cotton manufacturer suffers considerably by an illicit kind of trafficking carried on along the Canada lines, and from the British West India islands, as well as from the frauds practised in rating the goods shipped at a lower price than what they were bought for. In vain will any alteration be made in levying or collecting taxes while these evils exist.

25th. We have not been a going here that length of time.

26th. In spinning a hundred pounds of cotton yarn, No. 15, it will take 120 lbs. of cotton,  
 at 10½ cents      12 60      100 lbs. cotton yarn, No. 15, at 23 cents,      23 00  
 Labor              8 00      Expenses                                      21 00  
 Expenses              40

\$ 21.00

\$ 2.00 to pay

the proprietor for his superintendence, hauling, storage, commission, insurance, &c.

27th. About 120 barrels of flour will be consumed in the year, and other articles. There will be about \$ 500 expended monthly, in purchasing food, clothing, and sundries. All the agricultural and domestic production of our country, (tea and coffee excepted.)

28th. Don't know.

29th. Most assuredly it would not only cause but force me to abandon my machinery, which would be valueless, as well as my business. Who would take the lease of my mill off my hands? Who would pay a \$ 1,000 a year for a place that had to be abandoned? Who would consume the farmers' productions, &c.?

30th. What capital would we have to employ in another business, when it is invested in machinery, water power, buildings, &c.? These would be rendered valueless at once. Capital as well as business would be destroyed, and every individual who owned machinery would be ruined. They might take them to England, and try to sell them there, for they would be of no value in America; or, I might say rather in the free States; perhaps the experiment might be tried to work them with the slave population, in order to keep pace with the improvements of England in cheapening labor and grinding the faces of the poor.

31st. If we were forced to abandon our business, and consequently our establishments, although there is many businesses as profitable as ours at present, how could we engage in any? We might go with the Indians beyond the Mississippi.

32d, 33d, 34th. Odd queries.

35th. Much better to have the duty assessed upon the actual value of the article in the American port; it will prevent many frauds that are practised under the present system, to the great detriment of domestic industry.

### DOCUMENT 13.—No. 25.

*Joanna Furnace, Berks County, State of Pennsylvania, April 10th, 1832.*

*JOANNA FURNACE, April 10th, 1832.*

GENTLEMEN: Your favor of the 21st of March was not received until a few days since, owing to its having been sent to Reading instead of this place. I herewith enclose to you my answer to some of the interrogatories propounded by you; and I regret that the time allowed to procure the information you seek to obtain, is so short that it will prevent my replying to some queries to which you have called my attention. In Berks county there are ten blast furnaces, three cupolas, twenty-seven forges, and three tilt hammers. I have in my possession returns from several of the iron-works in this county, made by the owners and occupants, which I believe to be correct so far as they go. These returns I forward to you, from which you will be enabled to form some idea of the extent and importance of the iron business in Berks county. As to my views respecting a repeal or modification of the duty on foreign iron, I refer you to my answer to question No. 23. I however, would here observe, that I have, for sometime past, endeavored to obtain correct information as to the expense of manufacturing iron at the different works in this section of country, and

I am, respectfully,

Yours, &c.,

**WM. DARLING,**

**M. CAREY, Esq.,  
C. C. BIDDLE, Esq.**

## ANSWERS TO QUESTIONS.

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## DOCUMENT 13.—No. 26.

*Victoria Forge, Dauphin County, State of Pennsylvania, April 12, 1832.*

## ANSWERS TO QUESTIONS.

1. Pennsylvania, Dauphin county. Victoria forges.
2. Iron; (2 forges;) water power.
3. Put up in 1829-'30.
4. \$48,000.
6. \$3,000 per annum.
7. Introduction of iron under the denomination of old iron, scrap iron, cause of decrease in the profits.
8. Not known by me.
9. About 200 ton of bar iron.
10. 300 tons of domestic pig metal, value \$9,500.
11. Not known by me.
12. 60 men; average wages per month, \$20 each.
13. From 6 to 10 hours the year round.
14. Not known by me.
15. 30 or 40 mules and horses, and 10 oxen.
16. The iron is sent to Philadelphia and Baltimore, where it is sold.
17. The English, Swedish, and Russian iron sell there in competition; but to our great disadvantage when smuggled as old iron, &c., &c.
18. Chiefly in the cities abovementioned.
19. Not exported.
20. Sold at 6 months' credit.
21. The cost of the manufactured article, in the labor, has increased 15 per cent.
22. Average price \$82 per ton.
23. The present duty, and preventing importation of old iron free of duty.
24. To guard against the importation of old iron used for many purposes.
25. No profits; or, if any, very trifling.
27. 3,000 bushels of rye, 1,200 bushels of oats, and 900 bushels of wheat.
29. We would have to abandon the business.
30. It is hard to tell.
31. I do not know.
32. No. The canal and railroad communication increases the facilities of getting the articles from the large cities or sea ports.

DOCUMENT 13.—No. 27.

Moselline Furnaces and Forges.

|                | Names of works.                   | Erected in the year | Where located. |         | The different years of operation stated. | No. of workmen employed. | No. of persons dependant on the works. | No. of horses and draft cattle employed. | Cords of wood consumed pr. year. | Tons of pig metal made per year. | Tons of bar iron made per year. | Tons of blooms made pr. year. |
|----------------|-----------------------------------|---------------------|----------------|---------|------------------------------------------|--------------------------|----------------------------------------|------------------------------------------|----------------------------------|----------------------------------|---------------------------------|-------------------------------|
|                |                                   |                     | State.         | County. |                                          |                          |                                        |                                          |                                  |                                  |                                 |                               |
| Blast furnaces | Moselline furnace                 | 1807                | Pennsylvania   | Berks   | 1828<br>1829<br>1830                     | 75<br>75<br>75           | 350<br>350<br>350                      | 40<br>40<br>40                           | 2,500<br>2,200<br>3,500          | 290<br>275<br>490                | 45<br>45<br>45                  | 300<br>300                    |
|                | Maiden creek and Moselline forges | 1822<br>1829        | Pennsylvania   | Berks   | 1828<br>1829<br>1830                     | 95<br>95<br>95           | 450<br>450<br>450                      | 75<br>75<br>75                           | 2,000<br>2,000<br>2,000          | -<br>-<br>-                      | -<br>-<br>-                     | -<br>-<br>-                   |

DOCUMENT 13.—No. 28.

Hopevell.

|                | Names of works. | Erected in the year | Where located. |         | The different years of operation stated. | No. of workmen employed. | No. of persons dependant on the works. | No. of horses and draft cattle employed. | Cords of wood consumed pr. year. | Tons of pig metal made per year. | Tons of cast-ings made per year. |
|----------------|-----------------|---------------------|----------------|---------|------------------------------------------|--------------------------|----------------------------------------|------------------------------------------|----------------------------------|----------------------------------|----------------------------------|
|                |                 |                     | State.         | County. |                                          |                          |                                        |                                          |                                  |                                  |                                  |
| Blast furnaces | Hopevell        | -                   | Pennsylvania   | Berks   | 1828<br>1829<br>1830                     | 100<br>102<br>110        | 500<br>510<br>500                      | 60<br>60<br>60                           | 5,000<br>5,000<br>5,100          | 427<br>422<br>430                | 315<br>309<br>357                |
|                |                 |                     |                |         |                                          |                          |                                        |                                          |                                  |                                  |                                  |

## DOCUMENT 13.—No. 29.

*Sally Ann Furnace.*

| Names of works. | Erected in the year | Where located. |         | The different years of operations stated. | No. of workmen employed. | No. of persons dependant on the works. | No. of horses and draft cattle employed. | Cords of wood consumed pr. year. | Tons of pig metal made per year. | Tons of cast-ings made per year. |
|-----------------|---------------------|----------------|---------|-------------------------------------------|--------------------------|----------------------------------------|------------------------------------------|----------------------------------|----------------------------------|----------------------------------|
|                 |                     | State.         | County. |                                           |                          |                                        |                                          |                                  |                                  |                                  |
| Blast furnaces  |                     | Pennsylvania   | Berks   | 1828<br>1829<br>1830                      | 90<br>90<br>90           | 400<br>400<br>400                      | 50<br>50<br>50                           | 2,600<br>4,300<br>4,100          | 310<br>486<br>506                | 40<br>15<br>18                   |
|                 |                     |                |         |                                           |                          |                                        |                                          |                                  |                                  |                                  |

## DOCUMENT 13.—No. 30.

*Do-well Forge.*

| Names of works.      | Erected in the year | Where located. |         | The different years of operations stated. | No. of workmen employed. | No. of persons dependant on the works. | No. of horses and draft cattle employed. | No. of tons of shipping employed. | Cords of wood consumed pr. year. | Tons of bar iron made per year. | Tons of blooms made pr. year. |
|----------------------|---------------------|----------------|---------|-------------------------------------------|--------------------------|----------------------------------------|------------------------------------------|-----------------------------------|----------------------------------|---------------------------------|-------------------------------|
|                      |                     | State.         | County. |                                           |                          |                                        |                                          |                                   |                                  |                                 |                               |
| Forges with hammers. |                     | Pennsylvania   | Berks   | 1828<br>1829<br>1830                      | 15<br>15<br>15           | 128<br>128<br>128                      | 15<br>15<br>18                           | 500<br>500<br>500                 | 1,300<br>1,300<br>1,300          | 260<br>300<br>280               | 260                           |
|                      |                     |                |         |                                           |                          |                                        |                                          |                                   |                                  |                                 |                               |

## Spring Forge.

| Names of works.       | Erected in the year | Where located. |         | The different years of operation stated. | No. of workmen employed. | No. of persons dependant on the works. | No. of horses and draft cattle employed. | Cords of wood consumed per year. | Tons of bar iron made per year. | Tons of bloom made per year. |
|-----------------------|---------------------|----------------|---------|------------------------------------------|--------------------------|----------------------------------------|------------------------------------------|----------------------------------|---------------------------------|------------------------------|
|                       |                     | State.         | County. |                                          |                          |                                        |                                          |                                  |                                 |                              |
| Forges, with hammers. | 1822                | Pennsylvania   | Berks   | 1828                                     | 20                       | 50                                     | 15                                       | 1,200                            | 100                             | 20                           |
|                       |                     |                |         | 1829<br>1830                             | 20<br>25                 | 60<br>53                               | 18<br>20                                 | 1,500<br>1,100                   | 105<br>100                      | 25                           |

## DOCUMENT 13.—No. 32.

## Upper Mount Pleasant Forge.

| Names of works.      | Erected in the year | Where located. |         | The different years of operation stated. | No. of workmen employed. | No. of persons dependant on the works. | No. of horses and draft cattle employed. | Cords of wood consumed per year. | Tons of bar iron made per year. |
|----------------------|---------------------|----------------|---------|------------------------------------------|--------------------------|----------------------------------------|------------------------------------------|----------------------------------|---------------------------------|
|                      |                     | State.         | County. |                                          |                          |                                        |                                          |                                  |                                 |
| Forges, with hammers | 1774                | Pennsylvania   | Berks   | 1828                                     | 4                        | 30                                     | 10                                       | 500                              | 49.17.3                         |
|                      |                     |                |         | 1829                                     | 4                        | 30                                     | 10                                       | 500                              | 47. 9.3                         |
|                      |                     |                |         | 1830                                     | 4                        | 31                                     | 10                                       | 500                              | 48. 8.3                         |



DOCUMENT 13.—No. 33.  
*Mount Pleasant, old, and Bloom Forges.*

| Names of works. | Erected in the year             | Where located. |         | The different years of operations stated. | Number of workmen employed. | Number of persons dependant on the works. | Number of horses and draft cattle employed. | Cords of wood consumed per year. | Tons of pig and scrap iron melted. | Tons of American iron used. |
|-----------------|---------------------------------|----------------|---------|-------------------------------------------|-----------------------------|-------------------------------------------|---------------------------------------------|----------------------------------|------------------------------------|-----------------------------|
|                 |                                 | State.         | County. |                                           |                             |                                           |                                             |                                  |                                    |                             |
| Forge*          | Mount Pleasant, old, and Bloom. | Pennsylvania   | Berks   | 1828                                      | 18                          | 45                                        | 10                                          | 1,000                            | 150                                | 100                         |
|                 |                                 |                |         | 1829                                      | 10                          | 26                                        | 8                                           | 500                              | 75                                 | 50                          |

\* This is the estimate of two forges.

DOCUMENT 13.—No. 34.  
*District Forge.*

| Name of works.      | Erected in the year | Where located. |         | The different years of operations stated. | Number of workmen employed. | Number of persons dependant on the works. | Number of horses and draft cattle employed. | Cords of wood consumed per year. | Tons of bar iron made per year. |
|---------------------|---------------------|----------------|---------|-------------------------------------------|-----------------------------|-------------------------------------------|---------------------------------------------|----------------------------------|---------------------------------|
|                     |                     | State.         | County. |                                           |                             |                                           |                                             |                                  |                                 |
| Forge, with hammers | District Forge      | Pennsylvania   | Berks   | 1828                                      | 4                           | 60                                        | 0                                           | 600                              | 64                              |
|                     |                     |                |         | 1829                                      | 2                           | 60                                        | 7                                           | 600                              | 48                              |
|                     |                     |                |         | 1830                                      |                             | 100                                       | 10                                          | 1,100                            | 100                             |

DOCUMENT 13.—No. 35

*Joanna Furnace.*

| Name of works. | Erected in the year | Where located. |         | The different years of operations stated. | Number of workmen employed. | Number of persons dependant on the works. | Number of horses and draft cattle employed. | Number of tons of shipping employed. | Cords of wood consumed per year. | Tons of pig metal made per year. | Tons of castings made per year. |
|----------------|---------------------|----------------|---------|-------------------------------------------|-----------------------------|-------------------------------------------|---------------------------------------------|--------------------------------------|----------------------------------|----------------------------------|---------------------------------|
|                |                     | State.         | County. |                                           |                             |                                           |                                             |                                      |                                  |                                  |                                 |
| Blast furnace  | 1793                | Pennsylvania   | Berks   | 1828                                      | 95                          | 500                                       | 56                                          | -                                    | 5,000                            | 600                              | 80                              |
|                |                     |                |         | 1829                                      | 95                          | 500                                       | 56                                          | -                                    | 5,000                            | 740                              | 95                              |
|                |                     |                |         | 1830                                      | 95                          | 500                                       | 60                                          | 60                                   | 4,500                            | 500                              | 212                             |

DOCUMENT 13.—No. 36.

*Dale Forge.*

| Name of works.      | Erected in the year | Where located. |         | The different years of operations stated. | Number of workmen employed. | Number of persons dependant on the works. | Number of horses and draft cattle employed. | Cords of wood consumed per year. | Tons of anthracite coal consumed per year. | Tons of bar iron made per year. |
|---------------------|---------------------|----------------|---------|-------------------------------------------|-----------------------------|-------------------------------------------|---------------------------------------------|----------------------------------|--------------------------------------------|---------------------------------|
|                     |                     | State.         | County. |                                           |                             |                                           |                                             |                                  |                                            |                                 |
| Forge, with hammers | 1804                | Pennsylvania   | Berks   | 1828                                      | 20                          | 51                                        | 11                                          | 981                              | -                                          | 98                              |
|                     |                     |                |         | 1829                                      | 20                          | 48                                        | 12                                          | 1,086                            | 18                                         | 101                             |
|                     |                     |                |         | 1830                                      | 21                          | 50                                        | 12                                          | 1,015                            | 20                                         | 96                              |

## DOCUMENT 13.—No. 37.

*Reading and Windsor Furnaces and Speedwell Forge.*

## READING BLAST FURNACE.

Years of operation, 1828, 1839, 1830. Number of workmen employed, 228. Number of dependants, 1,056. Number of horses, &c., 198. Cords of wood consumed, 23,822. Tons of pig metal, 3,568. Tons of castings, 95.

## WINDSOR FURNACE.

1828, 1829, 1830. Number of workmen employed, 195. Number of dependants, 1,075. Number of horses employed, 48. Cords of wood consumed, 11,200. Tons of pig metal, 666. Tons of castings, 750. Wheat, rye and corn, 8,600 bushels. Beef, pork, &c., 49,000 lbs.

## SPEEDWELL FORGE.

(This is the only printed form in my possession.)

1828, 1829, 1830. Number of workmen employed, 99. Number of dependants, 99. Number of horses, 36. Number of tons of shipping, 250. Cords of wood consumed, 3,450. Tons of bar iron, 205. Tons of blooms, 300.

## DOCUMENT 13.—No. 88.

*Mary Ann Furnace.*

| Names of works.      | Erected in the year. | Where located. |         | The different years of operations stated. | Number of workmen employed. | Number of persons dependant on the works. | Number of horses and draft cattle employed. | Cords of wood consumed per year. | Tons of pig metal made per year. | Tons of castings made per year. | Tons of bar iron made per year. |
|----------------------|----------------------|----------------|---------|-------------------------------------------|-----------------------------|-------------------------------------------|---------------------------------------------|----------------------------------|----------------------------------|---------------------------------|---------------------------------|
|                      |                      | State.         | County. |                                           |                             |                                           |                                             |                                  |                                  |                                 |                                 |
| Blast furnaces.      |                      | Pennsylvania   | Berks   | 1828<br>1829<br>1830                      | 30<br>34<br>36              | 210<br>230<br>236                         | 25<br>24<br>27                              | 3,500<br>4,000<br>3,900          | 420<br>495<br>490                | 85<br>100<br>90                 |                                 |
|                      | Mary Ann Furnace.    |                |         |                                           |                             |                                           |                                             |                                  |                                  |                                 |                                 |
| Forges, with hammers |                      | Pennsylvania   | Berks   | 1828<br>1829<br>1830                      | 16<br>16<br>17              | 100<br>130<br>130                         | 5<br>5<br>5                                 | 800<br>1,600<br>1,650            |                                  |                                 |                                 |
|                      | District, 2 forges   |                |         | 1st, 1793<br>2d, 1828                     |                             |                                           |                                             |                                  |                                  |                                 |                                 |
|                      |                      |                |         |                                           |                             |                                           |                                             |                                  |                                  |                                 | 80<br>165<br>170                |

**LETTER**  
**FROM THE SECRETARY OF THE TREASURY,**

*Transmitting further returns relating to Manufactures.*

(WESTERN DISTRICT OF PENNSYLVANIA.)

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**DOCUMENT 14.—No. 1.**

TREASURY DEPARTMENT, June 1, 1832.

SIR: I have the honor to transmit further returns relating to manufactures, received this day at the department, from the agents employed in the Western District of Pennsylvania.

I am, respectfully,

Your obedient servant,

LOUIS McLANE,

*Secy of the Treasury.*

Hon. the SPEAKER of the  
House of Representatives, U. S.

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**DOCUMENT 14.—No. 2.**

*Report on Domestic Manufactures in the Western District of Pennsylvania, May 26, 1832.*

PITTSBURGH, PENNSYLVANIA, May 21, 1832.

SIR: The time necessary for performing the duties assigned to us by your instructions, has delayed our statement and report much longer than we could have desired; and the information which we are now enabled to communicate is less precise, in some of its details, than it probably would have been if the object of our inquiries had been more perfectly understood by all to whom they were addressed.

The district within which our services were required embraces thirty-three counties, in almost every one of which the business of manufacturing is carried on to a greater or less extent. The manufacturers, in many instances, appeared to be surprised by the terms of the interrogatories submitted to them, supposing them to evince a disposition unfriendly to their interests; and we were not always successful in allaying this suspicion. A number of them declined furnishing the information required; and the actual condition of their establishments and business have been ascertained, as far as practicable, by comparing them with others of a similar kind and magnitude, and by the reports of persons being in the neighborhood.

The returns made by manufacturers in the leading branches, will give you a general idea of their condition, the prospects of their business, and the influence exerted by this department of industry upon the agricultural, as well as mechanical, labor of the country.

In conformity with your instructions, we shall now proceed to make a few suggestions which appear to us to be very material in considering the provisions of a new tariff.

We understand it to be your desire so to shape and adjust it as to afford a reasonable and fair protection to manufacturers, and, at the same time, to remove as far as practicable any burden, whether real or imaginary, which our present system imposes upon other classes of the community.

In regard to the district in which our observations have been made, the agricultural classes are fully satisfied with the present system; they are firm in the belief that it is just as beneficial to them as to those who are engaged in manufacturing. This opinion is universal. It is founded on the experience of the country, and we entirely concur in it. While, therefore, a modification of the tariff is expected which will lessen the revenue derived from imposts, it is earnestly desired by all, as well the agriculturist as those to whom your inquiries have been addressed, that the measure of protection should not be diminished. We think with some of the manufacturers, that the progressive improvements in their process

es, skill and economy, will enable them in the course of a few years to withstand foreign rivalry, under a scale of duties much lower than the present. But it is obvious that the march of improvement cannot be calculated with any precision beforehand, nor a scale of duties graduated by discoveries to be made. It is equally certain that improvements of every sort, in manufacturing, have an immediate effect in reducing prices, and that their full benefit will be enjoyed by the consumer, without any change in the duties. These considerations will justify us in confining our views to the present actual condition of the great interests in question, its prospective advantages, so far as they may be clearly foreseen, and the kind and degree of protection which it needs.

We have adverted to the general opinion as to the measure of protection *now* afforded. Our opinion is, that, in regard to the *ad valorem* duties, an equal protection might be secured by a scale of duties much lower than the present, provided the revenue laws could be so modified as to abolish the system of credits, and provide for an assessment of the duties upon a valuation in our own ports. All the reasons formerly urged in favor of custom-house credits are now refuted by the actual condition of our foreign trade. The importation of *ad valorem* articles, which constitute by far the greatest portion of supplies from abroad, is in the hands of foreign merchants.

The supply of the country bears no steady relation to its wants: it is mainly regulated by the quantity of goods on hands, from time to time, in Great Britain. The trade in question is a business of speculation and adventure, uninfluenced by any feelings of duty to an American Government; setting at defiance all the laws of personal reputation, and frequently covering the grossest frauds. The consequences resulting from this state of things, are such as to make almost every measure of duties inadequate.

Foreign goods are sold at auction sometimes for prices enormously high, and then at less than their cost. The same day—even the same hour—may witness the greatest fluctuation in prices. Buyers are often kept in ignorance of the true condition of the market; are imposed on by the artful suggestions of scarcity; they purchase at high prices in the beginning of a sale, which, before it closes, brings to light the fact that the quantity of goods in market is enormous, and the auction winds up with sacrifices incident to an over-supply.

In regard to auction sales, it has been justly said that the mystery which hangs over all their operations, and the artifices practised for managing the competition of buyers, show that they have more of the characteristics of gambling than of regular trade. They are, in a word, *a foreign concern*. They contribute essentially to fluctuations in the market, and are a principal cause of the uncertainty which baffles the wisest calculations, and prostrates the best directed enterprise of manufacturers as well as merchants.

The bill lately framed by you contains a most judicious and excellent provision in relation to sales at auction. We take the liberty of recommending that it be extended so as to embrace sales of cotton goods and cutlery, and indeed all *ad valorem* articles, the supply of which is wholly or in part in the hands of foreign merchants. We also take the liberty of recommending the abolition of credits in all cases of imported manufactures. As already observed, the actual condition of our trade shows that the reasons for their continuance have, in a great measure, ceased. They appear to us to promise no advantage which recommend a submission to the many evils incident to their continuance.

Reading at a distance from the seaboard, and not being minutely versed in the practices of the custom-house, a suggestion from us in relation to the mode of assessing the *ad valorem* duties may be deemed presumptuous: it appears, however, to be justified by the tenor and scope of your instructions, and if it shall produce no good, it can do no harm.

The bill just referred to proposes, not to fix the value of the goods by the invoice of the importer, but to look beyond it, to their *actual value* in the country whence imported. The 8th section declares, "That in all cases where the duty which now is, or hereafter may be, imposed on any goods, wares, or merchandise, imported into the United States, shall by law be regulated by, or be directed to be estimated or levied upon the value of the square yard, or of any other quantity or parcel thereof; and in all cases where there is or shall be imposed any *ad valorem* rate of duty on any goods, wares, or merchandise, imported into the United States, it shall be the duty of the collector within whose district the same shall be imported or entered, to cause the actual value thereof at the time purchased and place from which the same shall have been imported into the United States, to be ascertained, estimated and ascertained, and the number of such yards, parcels, or quantities, and such actual value of every of them, as the case may require; and it shall in every such case be the duty of the appraisers of the United States, and every of them, and of every other person who shall act as such appraiser, by all the reasonable ways or means in his or their power, to ascertain, estimate and appraise the true and actual value, any invoice or affidavit thereto to the contrary notwithstanding, of the said goods, wares, and merchandise, at the time purchased, and place from whence the same shall have been imported into the United States, and the number of such yards, parcels, or quantities, and such actual value of every of them, as the case may require."

The enactment here proposed contains a wise and necessary precaution against those fraudulent evasions of our revenue laws, which have been a subject of so much complaint. But still the security intended will become effectual only by an assiduous and careful execution of the laws in every particular of its requirements. Assuming this to be the course required and expected by the Government, it should seem that the expense and trouble incident to a valuation in our own ports cannot be greater, nor as great, as those incident to the perfect execution of the enactment proposed in the bill abovementioned. The difference appears to be in favor of a home valuation, the greater certainty to be attained by it, and the general confidence in its results, seem to give it a just preference over any estimate of foreign values or prices, however carefully made. It may be further remarked, that, in making such estimates, the invoices, with their vouchers, will, in practice, be resorted to in the first instance, and a variance of five or even ten per cent. from the actual value of the goods "in the country whence exported," might not readily be discovered; and where, if suspected, the means of detection may not be immediately at hand.

In determining foreign values, foreign merchants must still have the advantage. This appears sufficiently obvious in theory, and it has the confirmation of experience.

Taxing the value of an article in a foreign country, will be, in most instances, in principle, a departure from the mode of assessing taxes which obtains universally under the State Governments. When taxes are laid on real or personal property, no inquiry is ever made as to the price paid for either, or as to their value respectively at some former period. The inquiry is confined to the actual value at the time when the tax is assessed. A variation from this rule must not only involve a liability to mistakes, but it is itself a powerful temptation to imposture, and may excite to fraudulent practices, against which the watchfulness of Government will sometimes be exerted in vain.

The subject of auction sales, of the abolition of custom-house credits, and of assessing ad valorem duties upon a valuation in our own ports of entry, have engaged public attention for several years. Our opinion upon these subjects may deserve but little regard, and they would have been withheld, if they had been less forcibly recommended by the general sentiment. That sentiment pervades the whole community; and, in expressing our own views, we have but represented the convictions, the wishes, and the hopes of the manufacturers, farmers, mechanics, merchants, and all other descriptions of men in the numerous counties which we have visited. This must be our apology for fatiguing your attention with reasons which have no doubt been weighed by you already. We will merely add, in reference to these subjects, that the present system certainly contributes in some degree, and we think mainly, to those sudden fluctuations in the markets which are so frequent in our country, and so ruinous to manufacturers. Their best security is in the *stability* of the market, their worst evil its fluctuations. We confidently believe that if auctions were guarded against frauds, custom-house credits abolished, and the duties levied on the appraised value of goods in the port of importation, a much lower rate of duties than the present would suffice—would be, in practice, a protection not inferior to that now given: because, under such a system, importations would return to the hands of American merchants; the supply would be predicated to the demand; duties would be equally and certainly collected; and the stability of prices would not be continually disturbed by the spirit of reckless adventure and speculation which now presides in our markets.

What rate of duties would be sufficient, under the plan here suggested, we will not presume to say. We think that, in some instances, it would justify a reduction of ten per cent.

The means used by the Treasury Department for obtaining information preparatory to a remodeling of the tariff, indicate the caution which is felt to be necessary in framing a system which must affect so many valuable interests. Of Pennsylvania it may be truly said, that the prosperity of every branch of business is so interwoven with that of the manufacturing community, that if, by any error in legislation, the latter should be crippled, the former must suffer in nearly an equal degree.

Even our public works, now advanced near the point of completion, at an expense of many millions, were recommended principally by the exigencies of a domestic trade, arising from the growth of a vast manufacturing interest in this and some of our sister States. The amount of exchanges made necessary and advantageous by the great diversity of American labor, stimulated as it is in every department by our protective system, is almost beyond the reach of calculation. The stupendous commercial highways constructed by Pennsylvania for the purpose of giving facilities to these exchanges, are themselves the offspring of the protective system, and their value must depend essentially upon its preservation. The best, and almost the only market for the agricultural productions of Pennsylvania, is found in this and the other States, where manufacturing labor is guarded by the protective system.

The same may be said of Ohio, and indeed of all the grain-growing States. Any change which shall much depress and discourage manufacturing, must have an immediate effect upon this market; must, consequently, lessen the value of land, the value of labor, and the comforts of the laboring classes. The hope that the loss of a home market will be made

up by some new and equally valuable market abroad, for the flour, beef, bacon, wool, &c., now consumed in the manufacturing States, is too distant and fallacious to be for a moment relied on. No one can specify such a market. And it is certain that the depression, or even the destruction of our manufactories, would not materially increase our exports of either of the articles above mentioned. The farmer must therefore suffer, in proportion as manufacturing shall be circumscribed or superseded under the operation of a tariff. This we consider as absolutely certain.

It is a common remark, that by heavy duties the poor are made to bear the oppression of high prices. In our opinion, the laboring poor are the persons who have a deeper interest in the protective system than any other class of men. The only commodity which they can bring into market is their labor; by expanding and securing this market, their advantage is certain. Indeed we regard the tariff as a plan for the *protection of American labor*; that it bears with equal favor upon those who work in the field and in the manufactory; that it is peculiarly and emphatically a system for the laboring classes. The period of the greatest suffering ever experienced by the poor in this region of country, was that in which flour was a dollar to a dollar and seventy-five cents a barrel, and other subsistence in proportion. Instances occurred, and are now remembered, where healthy and active laborers worked in the field for no other reward than their victuals, and when journeymen mechanics served for several weeks in succession upon the same terms. Poor parents could not educate nor decently clothe their children: even those who owned and cultivated good farms, and were clear of debt, could only sustain themselves by a narrow economy; and among their unavoidable retrenchments was often found that of the education of their children. The condition of the country here referred to, presented the appalling spectacle of a population, a great proportion of which had no regular employment, and money was therefore dear and labor cheap. The man who had money, and the inclination to use it to the best advantage, was able to speculate upon the general distress; a distress arising from the want of a market for home industry. He was nearly twice as rich, comparatively, as he would have been if a fair market existed for the production of labor, or the country had yielded to labor itself its just and adequate return. It was a season of low prices, and of general poverty. Not merely were the products of agricultural, and, generally, of other labor, very low in price, but the aggregate produce of all the labor of the country was less, by nearly one-half in proportion to the population, than it now is; a fact which places in strong relief the fallacy of the idea which would connect the comforts of the people, generally, with low prices. By providing a market for labor, the Government is elevating the laboring classes to their proper level in the commonwealth. By depressing this market, it heightens, and that most oppressively, the inequality subsisting between those who live upon their money, and those who live by their labor: the one is made richer, the other is made poorer. The truth of this observation has not only the demonstration of actual experience, but it is continually verified by the opposite and clashing needs of the two classes in question.

Men who live upon and speculate with their money, are generally hostile to the protection of the natural labor, and are strenuous for reducing its price; while those who live by labor, or whose capital is directly employed in putting labor in motion, claim that it shall be protected. The theory of the first assigns a large measure of oppression to the laboring classes: under the existing system, the experience of the latter class rejects the sympathy so liberally tendered; denies its application, if not its sincerity; and insists on the reality of the blessings diffused through all their ranks by the protective system.

But although a market is now opened for the labor of the country, we are confident that the prices of its manufactured goods have been gradually falling since 1824; and, in regard to those articles which receive the largest protection, they do not much exceed the amount of the duties. The reason why low prices consists with the prosperity of the manufacturing community, is, that their capital is turned often, and constantly, and their market secured from the desultory rivalry of foreign countries.

There are two ways for lowering the American manufactures: one is by affording greater encouragement to the importation of foreign fabrics. But the benefit which this mode promises will be in an exact ratio to the injury done to our own manufacturers, and the benefit itself will vanish almost immediately; for the home production will be lessened, perhaps be discontinued; and then there will be an end to low prices. The mischief to every department of labor, inseparable from this plan, is too obvious to need any specification. The other mode of lowering the prices of American manufactures is, by encouraging the investment of capital, and the application of home labor in their production: it has never yet failed of its full effect, and it never can; it is fraught with blessings to the industrious classes; it is, moreover, connected with the national security and the national glory. This is the plan which we would most earnestly but respectfully recommend for insuring the permanent reduction of prices. Independent of its advantages in this respect, it is, in its operation, the most solid and palpable benefit ever conferred by Government upon the humble and less fortunate ranks of the American *people*. So closely is it blended with the

prosperity of Pennsylvania, that any considerable relaxation of the present system would inflict upon this State a heavy calamity.

Our tabular statement will apprise you of the amount of capital employed in some of the great branches of manufacturing in this district. Three millions two hundred thousand dollars are invested in iron works alone. Our researches have been necessarily limited to the more prominent branches, but the results obtained are such as to convince every one of the deep stakes which the people of this State must have in the preservation of a system of protection.

Without again adverting to our market for subsistence, and its relation to the interest immediately in question, we have thought proper to notice a subject not within the literal scope of our instructions, but which forcibly appeals to the consideration of Government.

Within a few years past great attention has been paid by our farmers to the raising of an improved breed of sheep. There are probably in western Pennsylvania, at this time, not less than 300,000; and the flocks are rapidly enlarging. By impairing the home market for wool, our enterprising farmers would suffer ruinous losses, and a general gloom overspread the whole agricultural community. The present ratio of multiplication is such, that, in a very short period, the supply of wool at home, for the entire consumption of the country, is certain, and the market must be overstocked with the article. If any case can be presented in which the influence of domestic competition upon prices will be speedily decisive, it is furnished by that of American wool.

During the last war, the freehold of Pennsylvania was valued by the appraisers of the General Government at three hundred and forty-three millions of dollars. It is now worth much more. The amount of personal estate, including our sheep and other property not freehold, whose value would be lowered or sunk under a faint or doubtful protection, is enormous. Suppose a depreciation of twenty per cent. in the value of the two descriptions of estate above mentioned, the loss sustained by Pennsylvania would be more than one hundred millions of dollars. We give it as our opinion that the depreciation supposed does not exceed, nor equal the measure of the injury which would fall upon this State, by essentially lessening the protection of manufacturing and agricultural labor. Our reasons might be spread out in detail; but they must be apparent to all who know any thing of our present condition, and of our domestic history for the last twelve years.

We forbear noticing many other topics which enter into the consideration of the policy in question; nor should we have troubled you with the views already given, but for the intense anxiety upon the subject of the tariff which agitates the minds of all classes.

Knowing your favorable opinion of the protective system, we have ventured a freedom of remark which, under different circumstances, might have been suppressed.

We remain, with great respect,

Your obedient humble servants,

WM. B. FOSTER.  
DAVID LYNCH.

The Hon. LOUIS McLANE,  
*Sec'y of the Treasury, Washington.*

### DOCUMENT 14.—No. 3.

*Iron Works, Alleghany County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Pittsburgh, Alleghany county, Pennsylvania.                   |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Manufacture of steam engines.                                 |
| 3. When established; and whether a joint stock concern?                                                                               | 3. Established in 1808; first manufactory west of the mountains. |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                       | 4. About ten thousand dollars.                                   |
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                 | 7. Decreased since 1824; tariff.                                 |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. Steam engines; ten thousand dollars a year.                   |



## DOCUMENT 14.—No. 3.—Continued.

| QUESTIONS.                                                                                                                                                                                  | ANSWERS.                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                           | 12. Number of hands averages about 18.                                                             |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                            | 13. Work from 11 to 12 hours per day.                                                              |
| 15. Number of horses or other animals employed?                                                                                                                                             | 15. Steam employed.                                                                                |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                   | 16. From Pittsburgh to all parts of the United States.                                             |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                    | 19. To Mexico.                                                                                     |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                  | 20. For cash and short credits, on approved security.                                              |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition, in the home market, with similar articles imported?                                                | 23. Reduction of the duty on iron.                                                                 |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                            | 24. Don't take piled bars for scrap iron.                                                          |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                | 26. The raw material has increased in the last 18 months \$15 per ton; both wrought and cast iron. |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle? | 32. Not out of the way of foreign competition.                                                     |
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                         | 36. Piled iron for scraps.                                                                         |
| 38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?                                                            | 38. Increase in proportion to the increase of population.                                          |

MAHLON ROGERS,  
Steam Engine Maker, Pittsburgh.

## DOCUMENT 14.—No. 4.

*Iron Manufactory, Alleghany County, West Pennsylvania.*

| QUESTIONS.                                                                           | ANSWERS.                                                        |
|--------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Alleghany county, Pennsylvania, Birmingham, near Pittsburgh. |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. Air foundry for iron.                                        |
| 3. When established; and whether a joint stock concern?                              | 3. 1812.                                                        |

DOCUMENT 14.—No. 4.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                               | ANSWERS.                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                          | 4. 10,000 dollars.                                     |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                                                         | 5. 20,000 dollars.                                     |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of the profit upon that portion which is not borrowed? | 6. 100 per cent.                                       |
| 9. Amount of articles annually manufactured since the establishment of the manufactory; description, quality, and value of each kind?                                                                                                                                                                    | 9. Hollow ware, engine castings, and stoves.           |
| 10. Quantity and value of different kinds of raw materials annually used, distinguishing between foreign and domestic products.                                                                                                                                                                          | 10. 400 tons of pig metal.                             |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                        | 12. Twelve men.                                        |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                         | 13. Twelve hours the whole year.                       |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                         | 14. 1½ dollar per day.                                 |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                          | 15. None.                                              |
| 16. Whether the manufactures find a market at the manufactory; if not, how far they are sent to a market?                                                                                                                                                                                                | 16. At the manufactory.                                |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                                | 17. None.                                              |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                 | 18. Pittsburgh.                                        |
| 19. Whether any of the manufactures are exported to foreign countries; and if so, where?                                                                                                                                                                                                                 | 19. None.                                              |
| 20. Whether the manufacture is sold by the manufacturer for cash; and if on credit, at what credit; if bartered, for what?                                                                                                                                                                               | 20. Credit six months.                                 |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                               | 21. Decreased.                                         |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                     | 22. 6½ at commencement, reduced to 3½ cents per pound. |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                             | 26. Not prepared to answer.                            |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                     | 28. Cannot say.                                        |

| QUESTIONS.                                                                                                                                                                                                                                                               | ANSWERS.                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| 29. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Continue.                              |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                           | 30. Blank.                                 |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                            | 31. No.                                    |
| 32. Are not the manufactures of salt and iron, remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                             | 32. Under present circumstances it cannot. |
| 33. Amount of capital, and what portion the borrowed capital bears to that which is real?                                                                                                                                                                                | 33. Not prepared to answer.                |

## DOCUMENT 4.—No. 5.

*Iron Manufactory, Alleghany County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Pennsylvania, Alleghany county.                                                    |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                  | 2. Iron of all descriptions by rolling; steam engine, 150 horse.                               |
| 3. When established; and whether a joint stock concern?                                                                               | 3. May, 1829.                                                                                  |
| 4. Capital invested in ground and building, water power and in machinery?                                                             | 4. Fifty thousand dollars.                                                                     |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. Paid for metals and blooms \$ 9,000, coal \$ 9,000, wages \$ 24,000.                        |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. 1,500 tons iron of the various kinds as per bill of prices, and can be increased one-third. |
| 12. Number of men, women and children employed, and average wages of each class?                                                      | 12. 150 men and boys employed.                                                                 |
| 13. How many hours a day employed? and what portion of the year?                                                                      | 13. Twelve hours, and employed about ten months in the year.                                   |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 16. We find our market principally at home; not more than one-third is sent abroad.            |
| 17. Whether foreign articles of the like kind enter into competition with them at such places of sale; and to what extent?            | 17. No.                                                                                        |

## DOCUMENT 14.—No. 5—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                  | ANSWERS.                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                  | 20. Sales generally at a credit of three and four months.                                                           |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased, and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. Our prices decreased \$5, or 5 per cent. per ton after the first year, since which they have remained the same. |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                  | 23. The present rate.                                                                                               |

*List of Prices at the Kensington Iron Works.*

|                                                   |                                                    |   |   |   |       |              |                                                                                                     |         |
|---------------------------------------------------|----------------------------------------------------|---|---|---|-------|--------------|-----------------------------------------------------------------------------------------------------|---------|
| <b>HOOP.</b>                                      | $\frac{1}{2}$ inch wide                            | - | - | - | \$185 | <b>FLAT.</b> | Horse shoe bar, 1 inch by $\frac{3}{8}$ , $\frac{1}{2}$ & $\frac{3}{4}$                             | 110     |
|                                                   | $\frac{3}{4}$ " "                                  | - | - | - | 180   |              | Saddle tree, 1, $1\frac{1}{2}$ & $1\frac{3}{4}$ inch, by $\frac{1}{2}$ ,<br>3-16, and $\frac{1}{4}$ | 115     |
|                                                   | $\frac{1}{2}$ " "                                  | - | - | - | 160   |              | $\frac{1}{2}$ inch by $\frac{1}{2}$ , 3-16, & $\frac{3}{4}$                                         | 125     |
|                                                   | $\frac{1}{4}$ " "                                  | - | - | - | 150   |              | $\frac{1}{2}$ inch by $\frac{1}{2}$ , 3-16, & $\frac{3}{4}$                                         | 135     |
|                                                   | 1 " "                                              | - | - | - | 140   |              | $\frac{1}{2}$ inch by $\frac{1}{2}$ , 3-16, & $\frac{3}{4}$                                         | 145     |
| 3, or $1\frac{1}{2}$ " "                          |                                                    | - | - | - | 130   |              | Dandy tire, $1\frac{1}{2}$ , and $1\frac{3}{4}$ inch                                                | 105     |
| 4, or $1\frac{1}{2}$ and $1\frac{3}{4}$ inch wide |                                                    | - | - | - | 120   |              | Common do. from 13-8 to 5 inch                                                                      | 95      |
| $1\frac{1}{2}$ and $1\frac{3}{4}$ " "             |                                                    | - | - | - | 115   |              | from 5 to 6 "                                                                                       | 105     |
| 6d, 8d, 10d, 12d, &c.                             |                                                    | - | - | - | 110   |              | Grate bar, $2\frac{1}{2}$ and 3 inch wide, and $1\frac{1}{2}$<br>inch square                        | 85 & 95 |
| <b>ROUND.</b>                                     | 3-16 inch                                          | - | - | - | 200   |              | Plough plates                                                                                       | 110     |
|                                                   | 1-4 " "                                            | - | - | - | 160   |              | Nail, deck, and spike rods                                                                          | 115     |
|                                                   | 5-16 " "                                           | - | - | - | 150   |              | Oval                                                                                                | 130     |
|                                                   | 3-8 " "                                            | - | - | - | 130   |              | Half oval                                                                                           | 120     |
|                                                   | 7-16, $\frac{1}{2}$ , 9-16, and $\frac{3}{4}$ inch | - | - | - | 115   |              | <b>SHEET.</b> Treble rolled                                                                         | 180     |
|                                                   | $\frac{1}{2}$ and $\frac{3}{4}$ inch               | - | - | - | 105   |              | Double do.                                                                                          | 170     |
|                                                   | 1 to 4 inch                                        | - | - | - | 100   |              | Fire bed and chimney, Nos. 13,<br>14, and 15                                                        | 165     |
| <b>SQUARE.</b>                                    | 3-16 inch                                          | - | - | - | 180   |              | Do do Nos. 16 and 17                                                                                | 160     |
|                                                   | $\frac{1}{2}$ " "                                  | - | - | - | 150   |              | Boiler plates                                                                                       | 140     |
|                                                   | 5-16 " "                                           | - | - | - | 135   |              | Do $\frac{1}{2}$ inch thick                                                                         | 150     |
|                                                   | $\frac{3}{8}$ " "                                  | - | - | - | 120   |              | All piled iron subject to an additional price.                                                      |         |
|                                                   | 7-16, $\frac{1}{2}$ , and $\frac{3}{4}$ inch       | - | - | - | 115   |              |                                                                                                     |         |
|                                                   | $\frac{3}{4}$ and $\frac{1}{2}$ inch               | - | - | - | 100   |              |                                                                                                     |         |
|                                                   | 1 to $3\frac{1}{2}$ " "                            | - | - | - | 95    |              |                                                                                                     |         |

## DOCUMENT 14.—No. 6.

*S. Smith & Co's. Rolling Mill and Nail Factory, Pittsburgh, Penn.*

| QUESTIONS.                                                                           | ANSWERS.                                                                                               |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Alleghany county, State of Pennsylvania.                                                            |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. Rolling mill and nail factory; steam power.                                                         |
| 3. When established; and whether a joint stock concern?                              | 3. Established 1811 or 1812 in part, bar rolls added 1827; purchased by present owners one year since. |

## DOCUMENT 14.—No. 6.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                                                          | 4. Twenty-eight thousand dollars.                                                                                                                                                      |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                                                                                         | 5. Materials bought on time; wages paid cash.                                                                                                                                          |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of the profit upon that portion which is not borrowed?                                 | 6. None made.                                                                                                                                                                          |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                                                    | 9. One thousand tons, one half bar iron, the other nails; bar iron from 95 to 109 dollars per ton; nails \$125.                                                                        |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                                                          | 10. Bloom iron, value at present \$95 per ton; domestic products.                                                                                                                      |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                                                          | 11. Nails manufactured of Swedish iron at Boston are sold at Louisville and Cincinnati at the same price of ours.                                                                      |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                                                        | 12. Twenty-five men; average wages \$1 20; 6 boys, 25 cents.                                                                                                                           |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                                                         | 13. Twelve hours.                                                                                                                                                                      |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                | 16. Sold at the manufactory.                                                                                                                                                           |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                                                                | 17. There are no iron and nails brought to Pittsburgh. The Boston manufacture of nails has part of the Cincinnati market, all the Louisville, and the whole valley of the Mississippi. |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                 | 18. Ohio and Kentucky principally, but in all the Western States.                                                                                                                      |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                                                                                                | 19. None.                                                                                                                                                                              |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                               | 20. Sold on a credit, generally 4 months.                                                                                                                                              |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                     | 22. Bar iron from \$95 to \$109; nails 5½ to 6½, per lb.                                                                                                                               |
| 25. What has been the rate of your profits annually for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Never made a dividend.                                                                                                                                                             |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                             | 26. More than three-fourths on the costs of raw material.                                                                                                                              |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make                                                                                                                                                                                                                                                         | 29. We would be compelled to abandon the business.                                                                                                                                     |

DOCUMENT 14.—No. 6.—Continued.

| QUESTIONS.                                                                                                                                                                                  | ANSWERS.                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?      |                                                                    |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                              | 30. Our capital in building and machinery would be sunk.           |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them? and what is the extent of that circle? | 32. We could not keep the Pittsburgh market at 12½ per cent. duty. |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent., and how gradual the reduction should be?                 | 34. We are not prepared to say; at present it yields little more.  |

DOCUMENT 14.—No. 7.

*Kinsland, Lightner, & Cuddy's Iron Foundry, Alleghany County, Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Alleghany county, Pennsylvania.                                                                                                                                  |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Iron foundry. Use a steam engine to turn, grind, &c.                                                                                                             |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. In 1929. A common copartnership.                                                                                                                                 |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. About \$30,000.                                                                                                                                                  |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. About \$30,000 of capital employed—say floating capital in materials, stock, cash, notes, outstanding debts, &c.                                                 |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory: distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6, 7, 8. Cannot state the answers to these questions with any precision—not having made a detailed statement of our affairs since the formation of our partnership. |
| 7. Cause of the increase (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                               |                                                                                                                                                                     |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       |                                                                                                                                                                     |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. About 75 or 80,000 dollars.                                                                                                                                      |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. Principally pig metal, about 1000 tons per annum consumed, valued from 35 to \$40,000; coal, bar iron, cost \$5000; no foreign materials used.                  |

## QUESTIONS.

11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?

12. Number of men, women, and children employed, and average wages of each class?

13. How many hours a day employed; and what portion of the year?

14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?

15. Number of horses or other animals employed?

16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?

17. Whether foreign articles of the like kind enter into competition with them at such place of sale; and to what extent?

18. Where are the manufactures consumed?

19. Whether any of the manufactures are exported to foreign countries? and if so, where?

20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?

21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?

22. The prices at which the manufactures have been sold by the manufacturer since the establishment?

23. What rate of duty necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?

24. Is any change necessary in levying or collecting the duty on such articles, to prevent fraud?

25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually?

26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?

## ANSWERS.

11. Cannot answer this question with any exactness. We believe that no similar articles are imported from any country but England, and not under our prices.

12. About 60 men and 15 boys.

13. Not exceeding 11 hours in the day are employed in labor; not more than two weeks lost time in a year.

14. Cannot answer this question further than to say, that, from any information in our reach, we pay higher wages than is paid in foreign countries by 33½ per ct. in general.

15. None.

16. Our principal sales are at home, but a considerable share of our manufactures are sold to the Western and Southern States.

17. There is now but little foreign competition which affects us; some of the smaller articles, such as butt hinges and counter weights are still imported; part of the latter article is made in Pittsburgh.

18. See answer 16.

19. None of our articles exported.

20. Not more than 1-6th of our sales are for cash; the balance on credits averaging about 6 months; 1-6th may be at 12 months.

21. The price of our raw material has risen 25 per cent. within the last year; labor has not changed much, but has rather increased in value.

22. A detail of this kind could not be inserted here.

The success of our business has not resulted so much from the duty on the articles we make, as from the prosperity of the country generally; and as far as we are individually concerned, we are satisfied with the present duties, and mode of collecting them.

25. See answers to 6, 7, 8.

26. Materials about 55 per cent.; labor and contingencies of wear and tear about 30 per cent.; profit 10 to 15 per cent.; but cannot answer with exactness. See answer to 6, 7, 8.

## DOCUMENT 14.—No. 7.—Continued.

## QUESTIONS.

27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?

28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?

29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?

30. If it would cause you to abandon your business, in what way would you employ your capital?

31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?

32. Are not the manufactures of salt and iron, remote from the points of importation, out of foreign competition within a certain circle around them? and what is the extent of that circle?

33. Amount of capital, and what proportion the borrowed capital bears to that which is real?

34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.? and how gradual the reduction should be?

35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum?

36. What would be the operation of this change upon the frauds at present supposed to be practised?

37. Proportion which the production by the American manufacturers bears to the consumption?

38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?

39. Average profit of money or capital in the United States?

40. Average rate of wages?

## ANSWERS.

27. All other productions excepting those enumerated in answer 10, are of a value too trifling to estimate.

28. Cannot answer.

29. We apprehend that 12½ per cent. ad valorem duty would be insufficient to protect other manufactures, and that their destruction would be ruinous to us. We would rather have the duty on our articles reduced alone, than have a general reduction. The reduction of duties on castings, sadirons, &c. might injure us, but if our customers were destroyed, we must quit business certainly.

30. Have not reflected on this subject.

31. Same answer.

32. We know of no extensive iron or salt establishment which is entirely out of the range of foreign competition.

33. About \$60,000, including \$14,000 owing on real estate. We have no borrowed capital; but in the purchase of stock and transaction of business, we use a credit of from 10 to \$20,000.

Are not qualified to answer these questions.

40. Wages of men in our establishment, from \$16 per month to \$1 50 per day; would average about \$1 12½ per day.



## DOCUMENT 14.—No. 8.

*Lock Manufacturers and Brass and Iron Founders, Alleghany County, Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                                | 1. Pennsylvania, county of Alleghany.                                                                                                                                                           |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                     | 2. Principally door locks of various descriptions. We employ a steam engine.                                                                                                                    |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                                  | 3. In 1813. Joint stock.                                                                                                                                                                        |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                          | 4. Amount of capital invested in ground, buildings, power, and machinery, about 8,000 dollars.                                                                                                  |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                                                         | 5. Amount of materials, 2,500 dollars.                                                                                                                                                          |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of the profit upon that portion which is not borrowed? | 6. 10 per cent. at present; formerly, 15 per cent. and upwards. Borrowed capital, none.                                                                                                         |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                                  | 7. The decrease in profit, owing to the low price of imported articles of an inferior quality, and the advance of the wages of workmen.                                                         |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                    | 9. 8,000 dollars; locks, 5,500 dollars; shackle fasteners, \$1,200; brass and iron work, 1,300 dollars.                                                                                         |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                          | 10. 6 tons iron, \$750; timber, \$300; copper and zinc, \$500; pig mettle, \$150.                                                                                                               |
| 12. Number of men, women, and children, employed, and average wages of each class?                                                                                                                                                                                                                       | 12. 16 men at \$1 per day; 6 boys at 50 cents.                                                                                                                                                  |
| 13. How many hours a day employed?                                                                                                                                                                                                                                                                       | 13. 12 hours the whole year.                                                                                                                                                                    |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                         | 14. Wages same rate otherwise employed in this county and State; in Europe one-half the amount at the same business.                                                                            |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                          | 15. 1 horse.                                                                                                                                                                                    |
| 16. Whether the manufactures find a market at the manufactory; if not, how far they are sent to a market?                                                                                                                                                                                                | 16. Part at the manufactory; the balance 500 to 700 miles.                                                                                                                                      |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                                | 17. The markets are glutted with the foreign article of an inferior quality, at a low price, which prevents the sale of our articles.                                                           |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                 | 18. In the western States principally.                                                                                                                                                          |
| 19. Whether any of the manufactures are exported to foreign countries; and if so, where?                                                                                                                                                                                                                 | 19. None are exported.                                                                                                                                                                          |
| 20. Whether the manufacture is sold by the manufacturer for cash; and if on credit, at what credit; if bartered, for what?                                                                                                                                                                               | 20. Cash, or 90 days' credit. We barter for materials, groceries, and produce.                                                                                                                  |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                               | 21. The cost of some has decreased in consequence of machinery; are not prepared to say how much. Materials have decreased since the commencement of the establishment from 50 to 100 per cent. |

## DOCUMENT 14.—No. 8.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 24. Is any change necessary in levying or collecting the duty on such articles, to prevent fraud?                                                                                                                                                                       | 24. We cannot say what change is necessary. We infer, from the low price of the imported article, that frauds are practised in some shape or other.                                                                             |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                            | 26. 20 per cent. the cost of the raw material; 50 per cent. wages of labor; 20 per ct. tools and machinery.                                                                                                                     |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. The duty being reduced to 12½ per cent., and the imported article depreciating in price proportionably, we should be compelled to abandon our business, although a corresponding reduction might take place in all imports. |

The imported articles, of the description we manufacture, are thrown into the market at such low prices, that we believe it impossible they could have paid the regular duties. They are sold in our eastern cities for less amount than would pay the cost of material and wages of labor here. It is true, they are of an inferior quality, yet they prevent, in a great measure, the sale of a good article. The higher price of iron, being from 300 to 400 per cent. higher here than in England, together with cost of labor being so much greater, will prevent us for some time from competing with the British manufacturers.

## DOCUMENT 14.—No. 9.

*Mason, Miltenberger & Co.'s Rolling Mill and Nail Factory, Pittsburgh, Penn.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. State of Pennsylvania, county Allegheny, city Pittsburgh.                                         |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Iron rolling mill and nail machines; steam power.                                                 |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. January, 1830; yes.                                                                               |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Forty thousand dollars.                                                                           |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                                                     | 5. Twenty-nine thousand dollars.                                                                     |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory: distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. About 12½ per cent. on the capital none borrowed.                                                 |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. Decrease occasioned by competition from rival establishments increasing since the tariff of 1824. |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. From 15 to 20 per cent.                                                                           |

## DOCUMENT 14.—No. 9.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                                                      | 9. 1,000 tons of iron and nails, bar, sheet, round and square sheet, hoop, boiler rods, and plough wing iron, and 2, 3, 4, 5, 6, 8, 10, 12, 16 and 20 gr. nails.   |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                                                            | 10. Blooms, 1,000 tons, \$95,000; coal \$90,000, bent \$3,600.                                                                                                     |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                                                                                                           | 12. We employ 46 persons, who receive on an average \$1 10 each daily.                                                                                             |
| 13. How many hours a day employed? and what portion of the year?                                                                                                                                                                                                                                                                           | 13. Ten hours a day; all the year.                                                                                                                                 |
| 14. Rate of wages of similar classes otherwise employed in the same State and country, in other States, and in foreign countries?                                                                                                                                                                                                          | 14. About the same; in foreign countries about one-fourth, and in England not so much as a fourth.                                                                 |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. Our works require 50 horses to supply us with blooms.                                                                                                          |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. Some is sold at home, but generally to Ohio, Kentucky, Indiana, Tennessee, Mississippi, Illinois, &c.                                                          |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                                                                 | 17. They do, particularly in nails; $\frac{1}{4}$ cent per pound rise on our nails would send 1,000 kegs afloat on the Atlantic.                                   |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. One-half at home, and the rest in question 18.                                                                                                                 |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                                                                   | 19. None. They could sooner send iron and nails to us than we to them.                                                                                             |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. We make our sales at 4 and 6 months' credit, and deduct 5 per cent. for cash.                                                                                  |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                | 21. It has increased the cost, because we must make a better article at less price, labor the same.                                                                |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. Bar iron at \$95, \$97, \$100, and \$105 per ton.                                                                                                              |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market, with similar articles imported?                                                                                                                                                                                                | 23. The present existing duty on iron.                                                                                                                             |
| 24. Is any change necessary in levying or collecting the duty on such articles, to prevent fraud?                                                                                                                                                                                                                                          | 24. Yes; the system of drawback should be done away, and the duty should be fixed at the value in this country.                                                    |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Our profits have been gradually increasing from 4 to 10 and 12 per cent on our capital; we have made no dividends, and any profits go to increase the capital. |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. \$95 a ton for blooms, \$5 for wages and fuel, and we received \$5 a ton profit for changing blooms to bar iron.                                               |

## DOCUMENT 14.—No. 9.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                        | 27. We pay our hands (who have families, in all 143 persons) cash for their labor; and we cannot tell what is the consumption of agricultural productions.                            |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. We would abandon our business rather than lose on it.                                                                                                                             |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. In purchasing real estate over which Government could have no control.                                                                                                            |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                           | 31. Any other business would do better than a losing one.                                                                                                                             |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                             | 32. Pittsburgh is remote, and yet we feel any fluctuations in sea coast towns. If we raise our nails ½ or ¼ cent, it would cause thousands of kegs to deluge the west by New Orleans. |
| 33. Amount of capital; and what portion the borrowed capital bears to that which is real?                                                                                                                                                                               | 33. Sixty-nine thousand dollars; not borrowed.                                                                                                                                        |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; and how gradual the reduction should be?                                                                                               | 34. The manufacturer of iron would require more than 6 per cent. to induce him to run the risks of trade, when he could buy bank stock without risk.                                  |
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                                                                                                     | 36. It would stop them; they could not be so numerous.                                                                                                                                |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                                                                             | 37. In a few years we (all iron works) can supply the whole consumption.                                                                                                              |
| 38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?                                                                                                                                        | 38. Manufactures increase 25 per cent. annually in number.                                                                                                                            |
| 39. Average profit of money or capital in the United States?                                                                                                                                                                                                            | 39. 15 to 20 per cent.; in dry goods business, more.                                                                                                                                  |
| 40. Average rate of wages?                                                                                                                                                                                                                                              | 40. 90 cents to \$1 per day.                                                                                                                                                          |

## DOCUMENT 14.—No. 10.

*John Arthur's Steam Engine Manufactory, Pittsburgh, Alleghany County.*

| QUESTIONS.                                                                           | ANSWERS.                                                         |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------|
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. Steam engines and castings for machinery of all descriptions. |

## DOCUMENT 14.—No. 10—Continued.

| QUESTIONS.                                                                                                                            | ANSWERS.                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| 3. When established; and whether a joint stock concern?                                                                               | 3. Eighteen hundred and fifteen.                                      |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                       | 4. Twenty thousand dollars.                                           |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                      | 5. Thirty-four thousand dollars.                                      |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. Steam engines and castings made this year, forty thousand dollars. |
| 12. Number of men, women, and children employed, and average wages of each class?                                                     | 12. Hands employed, forty.                                            |
| 13. How many hours a day employed; and what portion of the year?                                                                      | 13. Average number of hours, ten per day.                             |

## DOCUMENT 14.—No. 11.

*Iron Manufactory, Pittsburgh, Alleghany County.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                    |          |          |          |       |             |          |       |       |                   |       |                                  |  |       |          |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------|----------|----------|----------|-------|-------------|----------|-------|-------|-------------------|-------|----------------------------------|--|-------|----------|--|--|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Alleghany county, Pennsylvania.                                                                                                                                                                                                                                                                                                                                                                                                           |              |                    |          |          |          |       |             |          |       |       |                   |       |                                  |  |       |          |  |  |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Air foundry and steam engine manufactory; steam power used.                                                                                                                                                                                                                                                                                                                                                                               |              |                    |          |          |          |       |             |          |       |       |                   |       |                                  |  |       |          |  |  |
| 3. When established, and whether a joint stock concern?                                                                               | 3. The foundry established in 1806, the engine factory in 1830.                                                                                                                                                                                                                                                                                                                                                                              |              |                    |          |          |          |       |             |          |       |       |                   |       |                                  |  |       |          |  |  |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                       | 4. Sixty thousand dollars.                                                                                                                                                                                                                                                                                                                                                                                                                   |              |                    |          |          |          |       |             |          |       |       |                   |       |                                  |  |       |          |  |  |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. Fourteen thousand dollars.                                                                                                                                                                                                                                                                                                                                                                                                                |              |                    |          |          |          |       |             |          |       |       |                   |       |                                  |  |       |          |  |  |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. \$95,000; 14 steam engines, 140 tons heavy cannon, and 800 tons of other castings.                                                                                                                                                                                                                                                                                                                                                        |              |                    |          |          |          |       |             |          |       |       |                   |       |                                  |  |       |          |  |  |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?       | <table> <tr> <td>10. Pig iron</td><td>1,200 tons, value,</td><td>\$42,000</td></tr> <tr> <td>Bar iron</td><td>34 do do</td><td>3,740</td></tr> <tr> <td>Boiler iron</td><td>46 do do</td><td>7,130</td></tr> <tr> <td>Coals</td><td>40,000 bush'ls do</td><td>1,500</td></tr> <tr> <td>Fire clay, sand, lumber, &amp;c. &amp;c.</td><td></td><td>1,630</td></tr> <tr> <td colspan="3" style="text-align: right;">\$56,000</td></tr> </table> | 10. Pig iron | 1,200 tons, value, | \$42,000 | Bar iron | 34 do do | 3,740 | Boiler iron | 46 do do | 7,130 | Coals | 40,000 bush'ls do | 1,500 | Fire clay, sand, lumber, &c. &c. |  | 1,630 | \$56,000 |  |  |
| 10. Pig iron                                                                                                                          | 1,200 tons, value,                                                                                                                                                                                                                                                                                                                                                                                                                           | \$42,000     |                    |          |          |          |       |             |          |       |       |                   |       |                                  |  |       |          |  |  |
| Bar iron                                                                                                                              | 34 do do                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3,740        |                    |          |          |          |       |             |          |       |       |                   |       |                                  |  |       |          |  |  |
| Boiler iron                                                                                                                           | 46 do do                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7,130        |                    |          |          |          |       |             |          |       |       |                   |       |                                  |  |       |          |  |  |
| Coals                                                                                                                                 | 40,000 bush'ls do                                                                                                                                                                                                                                                                                                                                                                                                                            | 1,500        |                    |          |          |          |       |             |          |       |       |                   |       |                                  |  |       |          |  |  |
| Fire clay, sand, lumber, &c. &c.                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1,630        |                    |          |          |          |       |             |          |       |       |                   |       |                                  |  |       |          |  |  |
| \$56,000                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |                    |          |          |          |       |             |          |       |       |                   |       |                                  |  |       |          |  |  |
| 12. Number of men, women and children employed, and average wages of each class?                                                      | All domestic products.<br>12. Eighty men, no women nor children: average wages \$1 25 per day.                                                                                                                                                                                                                                                                                                                                               |              |                    |          |          |          |       |             |          |       |       |                   |       |                                  |  |       |          |  |  |
| 13. How many hours a day employed; and what portion of the year?                                                                      | 13. Average ten hours per day; all seasons of the year.                                                                                                                                                                                                                                                                                                                                                                                      |              |                    |          |          |          |       |             |          |       |       |                   |       |                                  |  |       |          |  |  |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 16. A part are sold in the vicinity; others are sent to Philadelphia, east, and from the lakes to the mouth of the Mississippi, west.                                                                                                                                                                                                                                                                                                        |              |                    |          |          |          |       |             |          |       |       |                   |       |                                  |  |       |          |  |  |

## DOCUMENT 14.—No. 11—Continued.

| QUESTIONS.                                                                                                                                                                                  | ANSWERS.                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                  | 17. Foreign steam engines are sold at New Orleans: to what extent not known.                                       |
| 18. Where are the manufactures consumed?                                                                                                                                                    | 18. Principally in the States west and southwest of this.                                                          |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                    | 19. A few steam engines are sent to South America.                                                                 |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                  | 20. Generally on a credit of six months.                                                                           |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                | 26. Materials 60 cents, wages 32 cents, profits 8 cents.                                                           |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle? | 32. Foreign iron is not at present used in this place, but it would be if the duties were reduced to 12½ per cent. |

PENNS FOUNDRY AND STEAM ENGINE MANUFACTORY,  
Pittsburgh, May 8th, 1832.

GENTLEMEN: The above are the answers we have to submit to the queries which you addressed to us. Very respectfully, your obedient servants,

McCLUNG, PRATT & WADE.

To Messrs. D. LYNCH and WM. B. FOSTER.

## DOCUMENT 14.—No. 12.

*Iron and Nail Manufactories, Pittsburgh, Alleghany County, Pennsylvania.*

The following may be depended on as a correct statement of the iron and nails manufactured at Pittsburgh, Pennsylvania, in the years ending 30th September, 1829, 1830, and 1831; as also the prices in those three years, the number of hands employed, and the expenses of transporting the blooms from the different forges.

P. SHOENBERGER & SON,

|                                                   |      |       |   |   |
|---------------------------------------------------|------|-------|---|---|
| Manufactured, from 30th September, 1828, to 1829, | tons | 1,591 | 7 | 2 |
| 1829, to 1830,                                    | do   | 1,869 | 1 |   |
| 1830, to 1831,                                    | do   | 2,049 | 7 | 3 |

Of this quantity there were manufactured into nails:

First year, 373½ tons.

Second do., 483½ do.

Third do., 534 do.

Seventy-eight hands employed annually, having 234 dependants.

This establishment is capable of manufacturing, annually, 2,500 tons.

LYON, SHORB & Co.

|                                                   |      |       |    |
|---------------------------------------------------|------|-------|----|
| Manufactured, from 30th September, 1828, to 1829, | tons | 1,005 | 5  |
| 1829, to 1830,                                    | do   | 1,159 | 15 |
| 1830, to 1831,                                    | do   | 1,539 | 15 |

Of this quantity there were made into nails:

First year, tons 182 17.

Second do., do. 300 1.

Third do., do. 276 10.

Fifty-four hands employed annually, having 162 dependants.

This establishment is capable of manufacturing, annually, 2,500 tons.

## DOCUMENT 14.—No. 12—Continued.

**MASON, MILTENBERGER & Co.**

|                                                                |       |   |   |
|----------------------------------------------------------------|-------|---|---|
| Manufactured, from 14th January, 1829, to Sept. 30, 1829, tons | 395   | 2 | 3 |
| 30th Sept., 1829, do. 1830, do.                                | 750   | 5 |   |
| 1830, do. 1831, do.                                            | 1,084 | 5 | 3 |

Of this quantity there were made into nails:

First year, tons 101 10.

Second do., do. 285 10.

Third do., do. 473 5.

Forty-six hands employed annually, having 138 dependants.

This establishment is capable of manufacturing, annually, 2,500 tons.

**H. SPANG & SON,**

Manufactured, from 30th September, 1830, to 30th September, 1831, 860 tons.

Of this quantity there were made into nails, 240 do.

Forty-five hands employed, having 140 dependants.

This establishment is capable of manufacturing *only* 1,500 tons.

**S. SMITH & Co.**

Manufactured, from 1st January, 1830, to 30th September, 1831, tons 5 50 lbs.

Of this quantity were made into nails, 2 48

Twenty men and five boys employed, having 43 dependants.

This establishment is capable of manufacturing *only* 1,500 tons.

**LEONARD, SEMPLE & LEONARD,**

Manufactured, from 12th May, to 30th September, 1829, tons 300 5

30th Sept., 1829, to do. 1830, do. 1,282 9

1830, to do. 1831, do. 1,390 9

One hundred and fifty-seven hands annually employed, having 472 dependants.

This establishment is capable of manufacturing, annually, 2,500 tons.

**HENRY BLAKE & Co.**

Manufactured, from 1st October, 1829, to 30th September, 1830, tons 1,156 7

30th Sept., 1830, to do. 1831, do. 1,808 6

Of this quantity were made into nails, 509 6

Seventy-one hands annually employed, having 144 dependants.

This establishment is capable of manufacturing *only* 2,500 tons.

The above factories give employment to 110 teams, of six horses each; which consume upwards of 190,000 bushels of grain. 110 carters, having 330 dependants.

The cash price of iron, the first of the above years, was \$122 per ton.

Do. do. the second year, was \$100 do.

Do. do. the third year, was \$95 do.

It will be seen by the above statement, that five of the abovementioned factories commenced operations in 1828.

**RECAPITULATION.**

Iron manufactured in Pittsburgh, from 30th September, 1828, to 1829, tons 3,291 19

30th do. 1829, to 1830, do. 6,217 17

30th do. 1830, to 1831, do. 9,282 02

Increase second year, 2,926 tons.

Third do. 3,065 do.

Nails manufactured first year, 556 tons.

Second do. 1,154 do.

Third do. 2,096 do.

Hands annually employed, 586. Dependants, 1,863. Mouths fed, 2,249. Teams of six horses each, 110. 660 horses annually employed. 190,000 bushels of grain consumed.

## DOCUMENT 14.—No. 13.

*Alexander and John McNickle's Armstrong Blast Furnace, Armstrong County, Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                   | ANSWERS.                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                    | 1. Pennsylvania, Armstrong county.                                                                        |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                                                                                                                                         | 2. Blast furnace; steam power.                                                                            |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                      | 3. 1826. Two partners.                                                                                    |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                              | 4. Twenty thousand dollars.                                                                               |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                      | 7. Fluctuation in price of manufactured product.                                                          |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                               | 8. Six per cent.                                                                                          |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                        | 9. Six hundred tons pig iron, at \$28 per ton.                                                            |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                              | 10. Iron ore.                                                                                             |
| 12. Number of men, women, and children, employed; and average wages of each class?                                                                                                                                                                           | 12. Forty men at \$17 per month.                                                                          |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                             | 13. Ten hours, nine months in the year.                                                                   |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                              | 15. Twenty-five horses and three yoke of oxen.                                                            |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                    | 16. Pittsburgh market, 55 miles. (Water carriage.)                                                        |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                     | 18. Pittsburgh, and west.                                                                                 |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                    | 19. None.                                                                                                 |
| 20. Whether the manufacture is sold by the manufacturer for cash? and, if on credit, at what credit? if bartered, for what?                                                                                                                                  | 20. Sold at six months' credit.                                                                           |
| 21. Whether the cost of the manufactured article (to the manufacturer,) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. Diminished in price since the establishment, say 10 per cent.                                         |
| 24. Is any change necessary in levying or collecting the duty on such articles, to prevent fraud?                                                                                                                                                            | 24. Supposed to be.                                                                                       |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                 | 26. The cost in the whole three items.                                                                    |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                             | 27. The greatest proportion of the supplies necessary for carrying on the business are domestic articles. |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would                                                                                     | 29. Abandon the business.                                                                                 |



## DOCUMENT 14.—No. 13—Continued.

| QUESTIONS.                                                                                                                                                                                   | ANSWERS.                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                                               |                                                                          |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                               | 30. Could not say.                                                       |
| 31. Is there any pursuit in which you could engage from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent?                                 | 31. Cannot say.                                                          |
| 32. Are not the manufactures of salt and iron, remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle? | 32. Remote from foreign importation, but not out of foreign competition. |

## DOCUMENT 14.—No. 14.

*Blast Furnace, Armstrong County, Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Armstrong county, Pennsylvania.                                         |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Blast furnace; steam power.                                             |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. In 1827.                                                                |
| 4. Capital invested in ground and buildings, water power and machinery?                                                                                                                                                                                                                              | 4. Ten thousand dollars.                                                   |
| 5. Average amount in materials, in cash for the purchase of materials, and payment of wages?                                                                                                                                                                                                         | 5. Three hours being too short notice to investigate and answer correctly. |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. Ditto.                                                                  |
| 7. Causes of the increase (or decrease) as the case may be) of profit?                                                                                                                                                                                                                               | 7. Ditto.                                                                  |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. Ditto.                                                                  |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. Ditto.                                                                 |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. Ditto.                                                                 |

## DOCUMENT 14.—No. 14—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                 | ANSWERS.                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                           | 12. Three hours being too short notice to investigate and answer correctly. |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                           | 13. Average ten hours all the year.                                         |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                            | 15. 18 horses and 4 yoke of oxen.                                           |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                  | 16. At Pittsburgh.                                                          |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                 | 17. Replied to in answer to query 5.                                        |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                   | 18. Ditto.                                                                  |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                 | 20. Six months' credit.                                                     |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. Replied to in answer to query 5.                                        |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                       | 22. Thirty dollars per 2,240 lbs.                                           |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                 | 23. Sixty-two and a half cents per 112 lbs.                                 |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                           | 24. Yes.                                                                    |

## DOCUMENT 14.—No. 15.

*Wire Manufactory, Beaver County, Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Beaver county, Pennsylvania.                                                                    |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                  | 2. Wire from No. 1 to 35. Water power.                                                             |
| 3. When established, and whether a joint stock concern?                                                                               | 3. September 15, 1838. Joint stock.                                                                |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                       | 4. Thirteen thousand seven hundred dollars.                                                        |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. We use from 75 to 100 tons of iron annually. Our wire is known to be superior to that imported. |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                                                                                                                                                                                                            | 10. Juniatta of a superior quality.                                                                                          |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                                                            | 11. Same price as the domestic article.                                                                                      |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                                                          | 12. Ten men at one dollar per day.                                                                                           |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                                                           | 13. Twelve hours per day, about 11½ months.                                                                                  |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                                                           | 14. Unknown.                                                                                                                 |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. One horse and six oxen.                                                                                                  |
| 16. Whether the manufactures find a market at the manufactory? if not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. From Pittsburgh to St. Louis, Missouri, Philadelphia, and New Orleans.                                                   |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. Answer given in No. 16.                                                                                                  |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                                                                   | 19. Sold on a credit of six months.                                                                                          |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. The price has declined since we commenced in 1828.                                                                       |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market, with similar articles imported?                                                                                                                                                                                                | 23. The present rate of duty is only sufficient.                                                                             |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. Tinned iron wire has been fraudulently imported, and is still believed to be so imported.                                |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Eight per cent. per annum has been our profit.                                                                           |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29. If any reduction in duty should take place, we should unavoidably abandon it.                                            |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30 & 31. In answer to questions Nos. 30 and 31, it is not a light matter to abandon a business which is our main dependence. |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                              |                                                                                                                              |

## DOCUMENT 14.—No. 15—Continued.

| QUESTIONS.                                                                                                                                                                                                       | ANSWERS.                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                      | 32. In some cases only. Relative to the manufacture of iron, it is certainly incorrect.            |
| 34. What amount of reduction in the duties would enable the actual or real capital employed, to yield an interest of six per cent.? and how gradual the reduction should be?                                     | 34. We should not feel disposed to manufacture for six per cent. profit, subject to risk and loss. |
| 35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum? | 35. Not answered.                                                                                  |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                      | 37. Nearly the whole amount is American, and, if encouraged, we intend to meet fully the demand.   |

We commenced the manufacture on the faith of the protection given by Congress in 1828. Since when the article has fallen lower than it has ever been known in the United States; and as to the quality of our manufacture, there is none better.

TOWNSEND, BAIRD & CO.

## DOCUMENT 14.—No. 16.

*Maria Forges, Bedford County, Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Pennsylvania, Bedford county, 25 miles distant from Bedford, on the Roaring spring.                |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Works styled Maria Forges, contain ten fires, embracing three buildings, propelled by water power. |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. In ——— commenced making iron, and since increased the establishment. An individual concern.        |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. About \$150,000, embracing about 12 thousand acres of land, 67 buildings.                          |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                                                     | 5. Annual expense is about \$126,500, for wages, feed, &c. besides the implements, wagons, teams, &c. |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. No borrowed capital.                                                                               |
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                                | 7. There are fluctuations in the article.                                                             |

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                          | 8. Capital otherwise employed in small concerns very often produce from 25 to 30 per cent.                                                                              |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                   | 9. About 1,660 tons of blooms, bar iron, rolled from Juniatta blooms, far superior to any English iron.                                                                 |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                         | 10. No foreign products used.                                                                                                                                           |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                         | 11. Cannot ascertain what blooms would cost delivered here from abroad.                                                                                                 |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                       | 12. Average about 100 hands with 65 families; average rate of wages 22 dollars per month, exclusive of foreman, who works by the ton at \$ 6 per ton for making blooms. |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                        | 13. Monthly hands from sunrise to sunset, foreman by turns during day and night, wood choppers by cord.                                                                 |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                        | 14. Wages are not so high at any other manual labor in this country, except recently at some public works.                                                              |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                         | 15. 68 horses and mules owned by this concern.                                                                                                                          |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                               | 16. The owner of this concern manufactures the blooms at his own rolling mill, situate at Pittsburgh.                                                                   |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                              | 17. No; none brought into the interior.                                                                                                                                 |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                | 18. West and southwestern parts of the United States.                                                                                                                   |
| 19. Whether any of the manufactures are exported to foreign countries? If so, where?                                                                                                                                                                                    | 19. None from here, and not much after it is converted into malleable iron, unless some to the south.                                                                   |
| 20. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                                                                                                                                                  | 20. It is not sold for cash here, nor indeed sold at all, until it is manufactured at his own rolling mill.                                                             |
| 24. Is any change necessary in levying or collecting duties on such articles, to prevent fraud?                                                                                                                                                                         | 24. Unacquainted with the mode of levying, and only know by information that frauds do exist.                                                                           |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                            | 26. No raw materials purchased.                                                                                                                                         |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                        | 27. About 8,000 bushels of rye and corn, 3,000 bushels of wheat, 800 bushels potatoes, and 150 tons hay, in proportion worth between 8 and 9,000 dollars.               |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Would be obliged to abandon the works.                                                                                                                              |

## DOCUMENT 14.—No. 16—Continued.

| QUESTIONS.                                                                                                                                                                                                       | ANSWERS.                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                   | 30. The capital consists in lands that I could not sell; of course could not turn it to any other purpose.           |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                    | 31. Many, if I could turn it into available capital.                                                                 |
| 33. Amount of capital, and what proportion the borrowed capital bears to that which is real?                                                                                                                     | 33. Entire amount of capital is worth \$ 244,000, none borrowed; if the business is ruined it is not worth \$ 3,600. |
| 35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum? | 35. Remote from sea ports, I am unacquainted with the mode of levying and collecting, &c.                            |
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                                              | 36. Not sufficiently acquainted with the rate of those frauds to give an opinion.                                    |
| 40. Average rate of wages?                                                                                                                                                                                       | 40. \$ 17 per month common labor throughout the State, though higher at iron works.                                  |

For PETER SHOENBERGER,  
J. STEINMAN.

## DOCUMENT 14.—No. 17.

*Hanover Iron Works, Bedford County, Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Bedford county, Pennsylvania.                                                                                                                                                                                                                                                                                 |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. One blast furnace, one forge with three fires, and one forge two fires; water power.                                                                                                                                                                                                                          |
| 3. When established; and whether a joint stock concern?                                                                               | 3. One forge 1822; furnace 1827; 1 forge 1830. Individual concern.                                                                                                                                                                                                                                               |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                       | 4. \$ 30,000 real property and machinery, and \$ 8,000 in stock, say coal, ore, cordwood, teams, &c.                                                                                                                                                                                                             |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. \$ 37,872, including freight to place of market. In this amount 525 tons of pigs (to make the blooms and iron) is charged as if they had been purchased, which would have been the case if the furnace and forges had been separate concerns, and in answer to query 9 the pigs made are put down as if sold. |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. 550 tons pig metal, at \$ 25 per ton; 20 tons castings, at \$ 60 per ton; 50 tons bar iron, at \$ 100 per ton; 300 tons blooms, at \$ 75 per ton. These are the average prices at the different places of market.                                                                                             |
| 12. Number of men, women, and children employed?                                                                                      | 12. Seventy laboring hands; 225 persons, including laborers, dependant on the works.                                                                                                                                                                                                                             |
| 15. Number of horses or other animals employed?                                                                                       | 15. Forty horses and mules.                                                                                                                                                                                                                                                                                      |

## DOCUMENT 14.—No. 17.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16. Whether the manufactures find a market at the manufactory; if not, how far they are sent to a market?                                                                                                                                                               | 16. Market for bar iron at the works, blooms at Baltimore, 100 miles, and Pittsburgh, 140 miles.                                                                                             |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                              | 17. Foreign iron enters into competition with blooms at Baltimore.                                                                                                                           |
| 20. Whether the manufacture is sold by the manufacturer for cash; and if on credit, at what credit; if bartered, for what?                                                                                                                                              | 20. Bar iron and castings bartered for country produce of different kinds; blooms sold on a credit from four to six months.                                                                  |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                              | 23. The tariff of 1828 is barely sufficient; any reduction in the tariff of 1828 would be ruinous to iron manufactories.                                                                     |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                        | 27. 40,000 lbs. of beef and pork; 4,000 bushels rye and corn; 2,000 bushels wheat; 50 tons hay; 500 bush. potatoes; 3,300 bundles straw; and about \$4,000 worth other domestic productions. |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. I would abandon my present business.                                                                                                                                                     |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. This question cannot be well answered, as my real property would be rendered useless or of little value.                                                                                 |

JOHN IRVINE.

## DOCUMENT 14.—No. 18.

*Iron Furnace, Bedford County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                          | ANSWERS.                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                           | 1. State of Pennsylvania, and county of Bedford.                                                 |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                | 2. A blast furnace; water power.                                                                 |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                             | 3. Established in 1827; and a joint stock concern.                                               |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                     | 4. The capital invested in ground, buildings, &c., is \$35,000.                                  |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                     | 5. The average amount in materials, including ore, coal, wood, &c., is \$13,000.                 |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. No capital borrowed; profit about ten per cent, making no charge for timber and ore consumed. |

DOCUMENT 14.—No. 18—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                                                                      | 7. Profits less than former years, owing to an increase of competition, and lower prices for the article.                                                                                                                                                                           |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                                                      | 9. We have made, annually, 1,000 tons of pig iron, of a good quality, worth twenty-four dollars per ton, and twenty-five tons of castings, worth fifty dollars per ton.                                                                                                             |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                                                          | 12. We give employment to 100 men, and 375 persons are dependant upon the establishment.                                                                                                                                                                                            |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                                                           | 13. About twelve hours every day; all the year.                                                                                                                                                                                                                                     |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. We employ 33 horses and 12 mules, exclusive of a number of teams of horses, to which employment is given incidentally.                                                                                                                                                          |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. We find a market for a very small part at the factory; the principal amount sent to the west, about 100 miles, and have but little foreign competition at this time.                                                                                                            |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. In Ohio, Kentucky, Indiana, &c.                                                                                                                                                                                                                                                 |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                                                                                                  | 19. None exported to foreign countries.                                                                                                                                                                                                                                             |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. A small part is sold for cash; a portion is exchanged for bar iron, and all kinds of provisions.                                                                                                                                                                                |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                | 21. The cost of manufacturing is regulated by the price of provisions.                                                                                                                                                                                                              |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. From 22 to 24 dollars per ton for metal.                                                                                                                                                                                                                                        |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. That established by the tariff of 1828.                                                                                                                                                                                                                                         |
| 25. What has been the rate of your profits, annually, for the last three years? And if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Profits are about 10 per cent., not charging for timber or ore consumed. No dividend made, having increased the improvements.                                                                                                                                                   |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. There is annually consumed at this establishment 2,200 bushels of wheat, 4,600 bushels of rye and corn, 500 bushels of potatoes, 400 bushels of oats, 35 tons of hay, 12,000 pounds of beef, 20,000 pounds of pork, besides a large amount of foreign and domestic merchandise. |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. My property would be worth nothing, and should have no capital.                                                                                                                                                                                                                 |



## DOCUMENT 14.—No. 18.—Continued.

| QUESTIONS.                                                                                                                                                                                  | ANSWERS.                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to twelve and a half per cent.?                 | 31. We know of no business but the one we are engaged in: what profits can be made, therefore, cannot say.                        |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle? | 32. The foreign competition does not reach us for about 40 miles; but a small part of our article is consumed within that circle. |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                | 33. No capital borrowed.                                                                                                          |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent.; and how gradual the reduction should be?                 | 34. We do not know relative to the reduction of duties, but believe competition will very soon reduce prices, and profits also.   |

KING, SWOOPE & Co.  
Per J. McKIERNAN.

## DOCUMENT 14.—No. 19.

*Iron Works, Bedford County, Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Bedford county, Pennsylvania.                                                                                                                     |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. One blast furnace, one forge with three fires; water power.                                                                                       |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. One forge 1830, one furnace 1831; individual concern.                                                                                             |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Twenty-three thousand three hundred dollars in real property and machinery; seven thousand dollars in stock, say, coal, ore, cordwood, teams, &c. |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                                                     | 5. Average cost for my furnace \$11,500, and one forge \$23,300 annually. This includes materials and wages of hands.                                |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. As the manufactory has been so short a time in operation, this query cannot be well answered.                                                     |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                                                                     | 12. Sixty men, average wages \$20 per month; 210 persons dependant on the works.                                                                     |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                     | 13. Ten hours per day, and twelve months in the year.                                                                                                |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. Thirty-two horses and six oxen.                                                                                                                  |

DOCUMENT 14.—No. 19—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                               | 16. Bar iron at the manufactory; blooms at Pittsburgh, 120 miles.                                                                                                                    |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                              | 17. Foreign iron excludes us from an eastern market.                                                                                                                                 |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                              | 23. The tariff of 1828 is sufficient.                                                                                                                                                |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                        | 27. 35,000 pounds beef and pork, 3,500 bushels rye and corn, 2,200 bushels wheat, 45 tons hay, 3,000 bundles straw, 560 bushels potatoes, and \$3,000 of other domestic productions. |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Abandon at once.                                                                                                                                                                 |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. I cannot tell at present.                                                                                                                                                        |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to twelve and a half per cent.?                                                                                             | 31. There are many.                                                                                                                                                                  |

JONATHAN LESLIE.

DOCUMENT 14.—No. 20.

*Iron Works, Bedford County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Bedford county, State of Pennsylvania.                 |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. One forge, water power, three fires.                   |
| 3. When established; and whether a joint stock concern?                                                                               | 3. Upwards of twenty years; joint stock.                  |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                       | 4. About six thousand eight hundred and fifty dollars.    |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                      | 5. Sixteen thousand seven hundred and fifty dollars.      |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                               | 7. The tariff of 1828 has caused a small increase.        |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. Bar iron 150 tons, at \$110; blooms 100 tons, at \$70. |

## DOCUMENT 14.—No. 30—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                             | ANSWERS.                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                        | 10. 375 tons pig iron, at \$25; 80,000 bushels coal, at 3 cents, \$2,400.                                      |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                                       | 12. 27 men, averaged at \$21 per month.                                                                        |
| 13. How many hours a day employed? and what portion of the year?                                                                                                                                                                                                       | 13. Nine hours, 12 months in the year.                                                                         |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                        | 15. 10 horses, two yoke of oxen.                                                                               |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                              | 16. Bar iron at factory; blooms at Pittsburgh, 120 miles.                                                      |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                             | 17. Prevents it being sent to eastern market.                                                                  |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                               | 18. Bar iron consumed in vicinity; blooms in West.                                                             |
| 19. Whether any of the manufactures are exported to foreign countries? And if so, where?                                                                                                                                                                               | 19. None exported.                                                                                             |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                             | 23. The present duty.                                                                                          |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                       | 27. 970 bushels rye, 540 bushels wheat, 200 bushels potatoes, 1,050 bundles straw, 20 tons hay, 40 cwt. bacon: |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent, with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Abandon.                                                                                                   |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to twelve and a half per cent.?                                                                                            | 31. There are many.                                                                                            |

For SWOOPE & ROYER,  
H. PIPER.

## DOCUMENT 14.—No. 21.

*Bedford Forge, Bedford County, West Pennsylvania.*

| QUESTIONS.                                                                           | ANSWERS.                                         |
|--------------------------------------------------------------------------------------|--------------------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Bedford county, State of Pennsylvania.        |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. Iron; one forge with four fires; water power. |

DOCUMENT 14.—No. 21—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                            | ANSWERS.                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                               | 3. Established in 1815: joint stock.                                                                                                                                                             |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                       | 4. \$23,675, real property and machinery.                                                                                                                                                        |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                       | 5. \$24,368, including freight; in this isn't 440 tons pig iron to make the blooms and iron.                                                                                                     |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                 | 9. 50 tons blooms, \$65 per ton; 250 tons bar iron, at \$900 per ton.                                                                                                                            |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                     | 12. 35 men.                                                                                                                                                                                      |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                       | 15. 14 horses.                                                                                                                                                                                   |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                             | 16. Market for bar iron at the works: blooms at Pittsburgh, one hundred and twenty miles.                                                                                                        |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                            | 17. Foreign iron excludes us from an eastern market.                                                                                                                                             |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what? if bartered, for what?                                                                                                                                                   | 20. Bar iron bartered for country produce of different kinds; blooms sold on a credit of six months.                                                                                             |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market, with similar articles imported?                                                                                                                           | 23. The tariff of 1828 is barely sufficient. Any reduction in the tariff of 1828 would be ruinous to iron manufactories.                                                                         |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                      | 27. 30,000 pounds of beef and pork; 2,000 bushels rye and corn; 1,000 bushels wheat; 20 tons hay; 300 bushels potatoes; 1,500 bundles straw, and about \$1,500 worth other domestic productions. |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per ct., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. We would abandon our present business.                                                                                                                                                       |

For SWOOPE & KING,  
THOMAS KING.

DOCUMENT 14.—No. 22.

*Robert Stewart's Jackson and Wolf Foundry, Crawford County, West Pennsylvania.*

| QUESTIONS.                                                                          | ANSWERS.                          |
|-------------------------------------------------------------------------------------|-----------------------------------|
| 1. State and county in which the manufactory is situated?                           | 1. Pennsylvania, Crawford county. |
| 2. Kind or description of the manufactory; and whether water, steam or other power? | 2. Iron foundry; steam power.     |

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Established in 1838. Individual concern.                                                          |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. \$5,000.                                                                                          |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                                                     | 5. \$11,000.                                                                                         |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory: distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. \$2,000 yearly.                                                                                   |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. Somewhat increased. Improvement of the country.                                                   |
| 8. Rates of profit on capital otherwise employed, in the same State and county?                                                                                                                                                                                                                      | 8. 20 per cent.                                                                                      |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. Ploughs, stoves, machinery and hollow ware; amount \$14,000; generally sold at 5 cents per pound. |
| 10. Quantity and value of different kinds of raw materials used;—distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. All domestic; pig iron, 125 tons, \$80 per ton, including carriage.                              |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. Do not know.                                                                                     |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. 12 men, 22 dollars per month.                                                                    |
| 13. How many hours a day employed? and what portion of the year?                                                                                                                                                                                                                                     | 13. 10 hours; all the year.                                                                          |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 14. \$20.                                                                                            |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. 2 horses and 1 yoke of oxen.                                                                     |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. In the surrounding country.                                                                      |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                           | 17. No competition.                                                                                  |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. West Pennsylvania.                                                                               |
| 19. Whether any of the manufactures are exported to foreign countries;—and if so, where?                                                                                                                                                                                                             | 19. None.                                                                                            |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                           | 20. Mostly bartered for country produce.                                                             |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                           | 21. Decreased, owing to a better knowledge of the business.                                          |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. Generally 5 cents per lb.                                   |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. A little more tariff.                                       |
| 24. Is any change necessary in levying or collecting the duty on such articles, to prevent fraud?                                                                                                                                                                                                                                          | 24. Do not know                                                 |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually. | 25. \$3,000.                                                    |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. Raw material one half; wages 30 per ct.; profits 20 per ct. |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. \$2,000; grain, meat, &c., raised in the country.           |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                       | 28. Do not know.                                                |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29. Continue to manufacture.                                    |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. Perhaps in mercantile business.                             |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to twelve and a half per cent.?                                                                                                                                                                | 31. Yes.                                                        |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                                                                                                | 32. Some are.                                                   |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                                                                                               | 33. \$16,000. None borrowed.                                    |

JACOB HERRINGTON.

## DOCUMENT 14.—No. 23.

*Iron Manufactory, Centre County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                                                                  | 1. At Philipsburg, Centre county, Pennsylvania.                                                                                                                                                                          |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                                                       | 2. A forge, rolling mill, wire drawing and screw mill, and cupola furnace; power both water and steam.                                                                                                                   |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                                                                    | 3. The forge in 1817-18; other works since 1823; one owner.                                                                                                                                                              |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                                                            | 4. In screw mill about \$66,000; other works about \$30,000.                                                                                                                                                             |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed?                                       | 6. On iron works there was heavy loss from 1818 to 1822; since then a profit averaging about 6 per cent.; on screws there has been a heavy loss ever since 1825-6.                                                       |
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                                                                      | 7. For a fuller answer, see endorsement.                                                                                                                                                                                 |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                                                           | 13. Ten hours in winter, 11 spring and fall, 12 summer.                                                                                                                                                                  |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. Very small portion at home; iron to Pittsburgh; screws both to seaboard and western waters.                                                                                                                          |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                                                                 | 17. Having stated in No. 7 the discount allowed on foreign screws, it seems superfluous to add that they enter into competition to a ruinous extent.                                                                     |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. Cities on seaboard and western waters.                                                                                                                                                                               |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                                                                                                  | 19. No.                                                                                                                                                                                                                  |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Six months' credit, and barter for hardware, tin ware, provisions, nails, and a variety of other things.                                                                                                             |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                | 21. Somewhat decreased, from improvements in machinery and greater skill of the hands.                                                                                                                                   |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. Price of screws to the importers, the same as it would cost them to import, but allowing them six months' credit; price on the western waters 20 per cent. less than charged by the hardware houses in Philadelphia. |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. Forty per cent. levied upon the selling prices in the principal cities, or otherwise specific duties equal thereto.                                                                                                  |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. On the iron works a profit of about 6 per cent.; on the screw mill a loss averaging nearly \$3,000 per annum. The whole is the sole property of the subscriber.                                                      |

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                    | 28. There is a very large establishment in New Jersey, owned in New York, others in Vermont and Massachusetts, and two or three smaller in Philadelphia.                        |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. I should certainly abandon the whole of my manufacturing concerns.                                                                                                          |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. I would remove with my machinery and the wreck of a large fortune to some country, the Government of which has the sagacity to appreciate and protect capital and industry. |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                            | 33. In building and machinery about 96,000 dollars—all my own property; besides about \$40,000 of active capital.                                                               |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; and how gradual the reduction should be?                                                                                               | 34. It would require a considerable addition to enable me to realize 6 per cent., as my previous answers show.                                                                  |

HARDMAN PHILIPS.

Having, so lately as December last, furnished to the Secretary of the Treasury all the particulars relative to the number of persons, horses, &c., employed about my works, I have confined my answers in the within principally to the consideration of the duties on screws, which are rendered next to inoperative by the enormous discounts allowed at this time, and for some years past, on screws of foreign manufacture—a system that must be revised to enable the manufacturer of this country to compete with any prospect of success. In the hope of this revision taking place, instead of discontinuing the manufacture in toto, I have done so only in part, making at this time only about 500 gross per week, of the different sizes, whereas my machinery, with the improvements which I have still continued to make, is adequate to the regular production of 1,500 gross per week. The space allowed for answers in the enclosed document not being sufficient to render a calculation very intelligible, I beg leave to repeat a contrast of the cost of importing screws in 1825, (when I first began to sell to any extent worth notice) and on occasion of the greatest discount being allowed, which was 65 per cent. in the last year.

|                                                   |       |
|---------------------------------------------------|-------|
| In 1825, suppose an invoice, value \$100, at par, | \$100 |
| Charges 10 per cent.,                             | 10    |

|                                         |       |
|-----------------------------------------|-------|
|                                         | \$110 |
| In 1825 the duty was only 30 per cent., | 33    |

|                       |       |
|-----------------------|-------|
| Cost to the importer, | \$143 |
|-----------------------|-------|

Suppose the same invoice, at the period of the greatest discount being allowed, which was in 1831, when very large importations were made at 65 per cent. discount, and the duty was 40 per cent.—

|                   |          |
|-------------------|----------|
| Invoice as above, | \$100 00 |
| Discount,         | 65 00    |

|                       |         |
|-----------------------|---------|
|                       | \$35 00 |
| Charges 10 per cent., | 3 50    |

|                    |         |
|--------------------|---------|
|                    | \$38 50 |
| Duty 40 per cent., | 15 40   |

|                               |         |
|-------------------------------|---------|
| Cost to the importer in 1831, | \$53 90 |
|-------------------------------|---------|



Thus, although in 1825 the duty was only 30 per cent., the cost to the importer must have been \$143, whilst in 1831, though the duty was then 40 per cent., the cost was only \$53 90, showing most conclusively, that, on the present system of levying duties on the prices of *other* countries, it acts in exactly in inverse ratio of what it ought to obtain, the duty being highest when least needed, and a mere mockery, when the distress of foreign nations causes their manufacturers to avail themselves of pauper labor.

I would further beg leave to notice the want of relation, from the above data, on the duty on screws, and that on the wire from which they are made.

|                                                                                                  |                  |
|--------------------------------------------------------------------------------------------------|------------------|
| The standard screw, 1 inch, No. 10, costs, per printed lists, 1s. 4½d.                           |                  |
| ster'g, or, in cents                                                                             | 30½              |
| Highest discount that has been allowed, 65 per cent.                                             | 19½              |
|                                                                                                  | <hr/> 10½        |
| Charges 10 per cent.                                                                             | 1                |
|                                                                                                  | <hr/> 11½ say 12 |
| Duty 40 per cent.                                                                                | 4.80             |
| To make one gross of such screws (1 inch No. 10) 1½ lbs. of wire is needed, duty 6 cents per lb. | 7.50             |
|                                                                                                  | <hr/> 2.70       |

The discount at this time would average 51 or 52, but I have assumed, in the above calculations, the highest that I have known to be allowed, to exhibit in the clearest light the *certainly* of the prostration of any establishments exposed to the *possibility* of such a state of things.

The most practicable remedy, it appears to me, would be to levy the duty on the selling prices of the principal hardware houses, in which case it ought to continue at 40 per cent. I should prefer specific duties, but for the necessity of so many different rates for the different sizes. Bed screws ought to be included in the alteration. If the duties were properly regulated, there is not a doubt that all the screws needed in the country would soon be manufactured in it; but, under present circumstances, no man whose capital is not actually engaged in the manufacture would think of embarking in it.

As to the duties on iron and wire, if the frauds in the collection of the former be guarded against, I am of opinion that they will suffice for the protection of the manufacturer; but if they be lowered, this section of the country will be ruined—the agriculturist as decidedly as the manufacturer.

HARDMAN PHILIPS.

Since writing the above, I have received a copy of the memorial to Congress of the hardware merchants of New York; on the following passage, in which, in page 3, I beg leave to make some remarks: "and while screws cost in England, ready made, less than the raw material here, no attempt to make them can succeed. A gross of 2 inch screws No. 14, weighs 3½ lbs., and cost, in 1830, 26 cents, which is 8 cents per lb., allowing nothing for waste; the wire to make them of costs here about 10 cents per lb., the duty alone being 6 cents."

The above quotation, intended to injure, benefits my cause in two ways. First, by proving the truth of the monstrous discounts which I have alleged to have been allowed, as will appear by the following calculation:

|                                                                             |          |
|-----------------------------------------------------------------------------|----------|
| One gross of 2 inch screws No. 14, is rated in the English printed lists at |          |
| 5s. 4d. sterling, or, in cents,                                             | 74 cents |
| Discount 65 per cent.!!!                                                    | 48       |

|                                             |           |
|---------------------------------------------|-----------|
| Cost in England, as stated by memorialists, | 26 cents. |
|---------------------------------------------|-----------|

2dly. By showing that the hardware men themselves, who are now complaining, are the only persons in the United States who benefit by these low prices. The people have no part in it. I follow up their own estimates to prove the assertion.

|                                                         |           |
|---------------------------------------------------------|-----------|
| Cost in England, thus admitted,                         | 26 cents  |
| Cost of importation, as stated in table B, 75 per cent, | 19½       |
|                                                         | <hr/> 45½ |

Yet the price charged by the regular hardware houses for such screws is still 88 cents per gross, the same as when the discount was from 40 to 45 per cent. only!!!

Can further proof or argument be needed to show the necessity of the measure which I advocate; particularly when I assert, positively, that 40 per cent. assessed on the selling price would enable the manufacturer in this country to compete both in price and quality, successfully, with any imported screws whatever? Less would not.

HARDMAN PHILIPS.

Having been called on to examine and report upon the quality of wood screws made at Philipsburg, Pennsylvania, we hereby certify that we have tried them in our different manufactories, in the severest and most complete manner, with the hardest woods, and have found them in every respect satisfactory. They appear to us to be made from the best of iron: and although it might be going far to say that they are superior to *James's*, we do not hesitate to pronounce them, in our judgment, fully equal.

D. PHYFE,  
JOS. MEEKS & SONS,  
ALEX. P. W. KINNAN,  
WM. H. WALSH,

*Cabinetmakers in the city of New York.*

10th January, 1832.

### DOCUMENT 14.—No. 24.

*Statement of Isaac McKinney's Iron Manufactory.*

| QUESTIONS.                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                  | 1. Centre county, Pennsylvania.                                                                                                                          |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                       | 2. Blast furnace; water power; products, pig metal, castings.                                                                                            |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                    | 3. A. D. 1825; individual property.                                                                                                                      |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                            | 4. \$45,000.                                                                                                                                             |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                            | 5. \$20,000.                                                                                                                                             |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                      | 9. Last three years average between 800 and 900 tons.                                                                                                    |
| 12. Number of men, women, and children, employed, and average wages of each class?                                                                                                                                                                         | 12. 55 men, wages \$16 to \$30 per month; most have families.                                                                                            |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                           | 13. 8 to 12 hours per day employed; whole year.                                                                                                          |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                           | 14. Wages in neighborhood \$11 to 16 per month, (not at iron works.)                                                                                     |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                            | 15. 30 horses, 3 yoke of oxen.                                                                                                                           |
| 16. Whether the manufacturers find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                 | 16. Two-thirds sold at home, one-third sent to sea board. Metal sold at home is manufactured into bar iron and blooms, and principally sent to seaboard. |
| 20. Whether the manufacture is sold by the manufacturer for cash; and if on credit, at what credit? if bartered, for what?                                                                                                                                 | 20. Principally sold at 6 months' credit.                                                                                                                |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. Wages have advanced about 25 per cent.                                                                                                               |

## DOCUMENT 14.—No. 24—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                     | 22. Sales for a time \$35 per ton, then \$30, now \$25, for pigs.                                                            |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                               | 23. Reduction of duty on iron would be ruinous, should be increased.                                                         |
| 25. What has been the rate of your profits annually for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Small, and probably will be smaller, owing to increased expense in raising coal, and an increased distance to draw coal. |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                         | 27. Above \$10,000.                                                                                                          |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent, with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                   | 29. Abandon.                                                                                                                 |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                           | 30. Agriculture, probably.                                                                                                   |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per centum?                                                                                                                                                                           | 31. Derangement of business would be so great, that it is impossible to answer this question.                                |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                                                                                              | 32. Similar works are so numerous as not to be supported in the neighborhood—must compete with foreign.                      |

GENTLEMEN: Your interrogatories are answered above as far and as accurately as they could be answered by a notice of two or three days.

Respectfully, yours, &c.,

D. McKINNEY  
for I. McKINNEY.

DAVID LYNCH,  
WM. B. FOSTER.

## DOCUMENT 14.—No. 25.

● *Blast Furnace and Forge, Centre County, Pennsylvania.*

| QUESTIONS.                                                | ANSWERS.                           |
|-----------------------------------------------------------|------------------------------------|
| 1. State and county in which the manufactory is situated? | 1. Centre county, in Pennsylvania. |

## QUESTIONS.

2. Kind or description of the manufactory; and whether water, steam, or other power?
3. When established, and whether a joint stock concern?
4. Capital invested in ground and buildings, and water power, and in machinery?
5. Average amount in materials and in cash for the purchase of materials, and payment of wages?
7. Causes of the increase (or decrease, as the case may be) of profit?
9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?
11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?
12. Number of men, women and children, employed, and average wages of each class?
13. How many hours a day employed, and what portion of the year?
15. Number of horses or other animals employed?
16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?
17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?
18. Where are the manufactures consumed?
20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?
21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?
22. The prices at which the manufactures have been sold by the manufacturer since the establishment?
23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?
24. Is any change necessary in levying or collecting the duty on such articles, to prevent fraud?

## ANSWERS.

2. Blast furnace and forge; by water power.
3. We went in operation in 1829. Individual enterprise.
4. Forty-five thousand dollars.
5. Yearly stock in trade, twenty thousand dollars.
7. We attribute the decrease in price to the competition in the market of our own manufacture, and the increase of foreign iron of every shape and form imaginable.
9. In 1831 we made 1,070 tons pig iron, at \$22 to \$25; 60 tons castings, at \$60, and 240 tons blooms at from \$55 to \$65 per ton. This is, for each year, a fair estimate.
11. We believe our iron, on impartial investigation, to be equal to foreign (old Sable) iron. In this market worth \$100.
12. 75 hands employed annually: average wages 20 dollars per month.
13. 12 hours per day in the summer, and some of the hands the same in winter; others about eight hours in winter.
15. 60 head of horses, and 10 yoke of oxen.
16. Mettle is generally exchanged for blooms, which is sent 120 miles to market.
17. It is a notorious fact that, on offering our iron in the sea board market at this time, we are at once told that the market is so completely stocked with foreign iron, at reduced prices, that our own manufacture will scarce maintain refunding prices, under existing expenses.
18. In the United States.
20. All sales at 4 and 6 months' credit.
21. Our expenses has increased five per cent. annually since our commencement; but in no other way.
22. In 1829 we sold blooms at \$1 00. They had decreased at one time 20 per cent.; but now are worth \$95.
23. The tariff of 1828 is fully adequate to our protection, if its provisions are put in active force.
24. We are led to believe there are many frauds committed.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                        | ANSWERS.                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually?</p> | <p>25. Our profits has been so very limited that we did not make any dividends.</p>                                                                                                                                                                                                             |
| <p>27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?</p>                                                                                                                                                                                           | <p>27. We consume annually 2,000 bushels wheat; 6,000 bushels rye and corn; 1,000 bushels oats; 14,000 lbs. bacon and beef; 1,000 bushels potatoes; 70 tons hay; 50 tons straw, and upwards of \$8,000 of domestic manufactured articles of different kinds.</p>                                |
| <p>29. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?</p>                                                                   | <p>29. No sooner shall the proposed reduction on the foreign manufacture be established, than the domestic manufacturer makes a choice of necessity, and be compelled to abandon his pursuits.</p>                                                                                              |
| <p>31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?</p>                                                                                                                                                                              | <p>31. Distressing, indeed, in our opinion, would be the business of our country, if (after a reduction of import duties of 12½ per cent.) we would be unable to engage our capital in other business that would not be infinitely more profitable, and without half the liability to lose.</p> |
| <p>32. Are not the manufactures of salt and iron, remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?</p>                                                                                                                                               | <p>32. No. 16 answers this question.</p>                                                                                                                                                                                                                                                        |
| <p>33. Amount of capital, and what proportion the borrowed capital bears to that which is real?</p>                                                                                                                                                                                                                                               | <p>33. Not a dollar of borrowed capital is the concern.</p>                                                                                                                                                                                                                                     |
| <p>34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent.; and how gradual the reduction shall be?</p>                                                                                                                                                                 | <p>34. The candid opinion of most manufacturers of iron, at this time, is, that any reduction of duty that would tend to increase the foreign article in our market, must eventually drive us out, and destroy us as manufacturers.</p>                                                         |

GENTLEMEN: From the short notice we have had to do so, we have endeavored to give as correct answers to queries in the above schedule as we possibly could.

Respectfully, yours,

LLOYD & McNAMARA.

April 25, 1832.

## DOCUMENT 14.—No. 26.

*Iron Works, Centre County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                               | 1. County of Centre, and State of Pennsylvania.                                                              |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                    | 2. Blast furnace, by water power.                                                                            |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                 | 3. In 1830, by individuals.                                                                                  |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                         | 4. Twenty-five thousand dollars.                                                                             |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                        | 5. Twenty thousand dollars.                                                                                  |
| 9. Amount of articles annually manufactured since the establishment of the manufactory; description, quality, and value of each kind?                                                                                                                                   | 9. We made last year about 900 tons pig iron, which have been sold at \$ 23 per ton at the works.            |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                       | 12. 65 hands employed; wages from \$ 15 to \$ 30 per month.                                                  |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                         | 15. About 40 horses and 2 yoke of oxen.                                                                      |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                | 18. In the United States.                                                                                    |
| 20. Whether the manufacture is sold by the manufacturer for cash; and if on credit, at what credit; if bartered, for what?                                                                                                                                              | 20. At six months' credit.                                                                                   |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                    | 22. Twenty-three and twenty-five dollars per ton.                                                            |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Our branch of manufacture would not bear any reduction of duty; if reduced we must abandon.              |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. A part in agriculture; the rest uncertain.                                                               |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent?                                                                                                            | 31. Every branch of business in our country, that we are acquainted with, would be more productive.          |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                             | 32. Domestic competition has brought our article to the sea board prices, deducting the actual freight paid. |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                            | 33. Forty-five thousand dollars; \$ 15,000 of which is borrowed.                                             |

HARRIS, THOMAS &amp; Co.

## DOCUMENT 14.—No. 27.

*Iron Foundry, Centre County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Pennsylvania, Centre county.                                                                                                                                                         |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Cupalo or pocket furnace; water power.                                                                                                                                               |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Commenced in 1828. Individual concern.                                                                                                                                               |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Two thousand dollars.                                                                                                                                                                |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. One thousand dollars.                                                                                                                                                                |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. To queries 6 and 7 we answer, that to the first we cannot give an explicit reply; to the second, our profits yearly average about what they were when we first commenced operations. |
| 7. Causes of the increase (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 8. To query 8 we cannot give a definite reply.                                                                                                                                          |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 9. 20 tons; ploughs, machinery; ploughs in value \$ 2,000, of a first rate quality, cast metal.                                                                                         |
| 9. Amount of articles annually manufactured since the establishment of the manufactory; description, quality, and value of each kind?                                                                                                                                                                | 10. Quantity 20 tons; value \$ 500; all domestic, procured in the county.                                                                                                               |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 11. None of the kind imported.                                                                                                                                                          |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 12. Four men, one dollar per day; not constantly employed.                                                                                                                              |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 13. Six hours in the day.                                                                                                                                                               |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                     | 14. Can give no accurate reply.                                                                                                                                                         |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 15. Two horses.                                                                                                                                                                         |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 16. Sold at home.                                                                                                                                                                       |
| 16. Whether the manufactures find a market at the manufactory; if not, how far they are sent to a market?                                                                                                                                                                                            | 17. No foreign competition.                                                                                                                                                             |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                           | 18. In Centre county, principally.                                                                                                                                                      |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 19. None.                                                                                                                                                                               |
| 19. Whether any of the manufactures are exported to foreign countries; and if so, where?                                                                                                                                                                                                             | 20. Sometimes for cash; a credit for three months only, payable in money.                                                                                                               |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                           | 21. Answer given to this in queries 6 & 7.                                                                                                                                              |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased, and how much in each year, from establishment of the manufactory?                                                                                                                                 |                                                                                                                                                                                         |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                               | ANSWERS.                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                     | 22. Price the same from the commencement. See answers to 9 and 10.  |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                               | 23. The rates as they are now established by law.                   |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                         | 24. No change necessary; we are content.                            |
| 25. What has been the rate of your profits annually for the last three years; and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Can give no definite answer.                                    |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                             | 26. See answers to queries on this subject above.                   |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                         | 27. About one thousand dollars.                                     |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                     | 28. Can give no accurate answer.                                    |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                 | 29. Quit the business if reduced, beyond all doubt.                 |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                           | 30. Probably in making washing machines or other notions.           |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                            | 31. Impossible to say, until after trial.                           |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                                                                                              | 32. They are not remote, so far as regards this section of country. |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                                                                                             | 33. Two thousand dollars; none borrowed.                            |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent., and how gradual the reduction shall be?                                                                                                                                                               | 34. If any reduction takes place we are destroyed.                  |
| 35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum?                                                                                                                         | 35. Can't give an accurate answer.                                  |



## DOCUMENT 14.—No. 27.—Continued.

| QUESTIONS.                                                                                                                      | ANSWERS.                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                             | 36. We are not aware of the extent of the supposed frauds.                  |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                     | 37. We sell all we can manufacture without much delay.                      |
| 38. Extent of individual or household manufacture in the United States, and how much it has increased since the tariff of 1824? | 38. It has greatly increased, but cannot say to what extent.                |
| 39. Average profit of money or capital in the United States?                                                                    | 39. Cannot say.                                                             |
| 40. Average rate of wages?                                                                                                      | 40. Answered above as regards our establishment; can give no further reply. |

GEORGE LEIDY &amp; Co.

April 24th, 1832.

## DOCUMENT 14.—No. 28.

*Edged Tools, Centre County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Bellefonte, Centre county, Pennsylvania.                                                                                                                                                                                                                                             |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Edge tool manufactory; water power.                                                                                                                                                                                                                                                  |
| 3. When established; and whether a joint stock concern?                                                                               | 3. In 1824, by Wm. and H. Mann.                                                                                                                                                                                                                                                         |
| 4. Capital invested in ground and buildings, and water power, and in machinery.                                                       | 4. Six thousand dollars.                                                                                                                                                                                                                                                                |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. Twenty thousand dollars per annum in materials, and twenty thousand cash.                                                                                                                                                                                                            |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. Amount of articles manufactured as follows: 30,000 axes, 500 broad axes, 38 adzes, 2,000 chisels, 600 scythes, 160 hoes, 2,000 shovels, 4,000 patent forks, 1,000 hand axes, 500 cooper axes, 500 cooper adzes, 1,000 drawing knives, 200 cleavers, 200 hatchets and other articles. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?       | 10. 80 tons of iron, 12 tons of imported cast steel, 2 tons German steel, 200 tons anthracite coal, 100 tons bituminous coal, 10,000 bushels charcoal, 100 tons grinding stones, 200 pounds borax.                                                                                      |
| 12. Number of men, women and children employed, and average wages of each class?                                                      | 12. 40 men, average wages \$1 per day.                                                                                                                                                                                                                                                  |
| 13. How many hours a day employed; and what portion of the year?                                                                      | 13. Ten hours per day.                                                                                                                                                                                                                                                                  |
| 15. Number of horses or other animals employed?                                                                                       | 15. Six horses.                                                                                                                                                                                                                                                                         |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 16. Sent to Philadelphia, 200 miles; New York, 300 miles.                                                                                                                                                                                                                               |

DOCUMENT 14.—No. 28.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                              | 17. They do to a very great extent, particularly light tools.          |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                | 18. In the United States.                                              |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                              | 20. Cash at six months' credit.                                        |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                              | 23. On all carpenter and cooper tools at least fifty per cent.         |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. We could not compete with imported articles, and would abandon it. |
| 40. Average rate of wages?                                                                                                                                                                                                                                              | 40. About \$10 per month.                                              |

MANN & CO.

DOCUMENT 14.—No. 29.

*Iron Foundry, Centre County, Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Pennsylvania, Centre county.                                                           |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Cupalo; water power.                                                                   |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Commenced in 1827; individual concern.                                                 |
| 4. Capital invested in ground and building, and water power, and in machinery?                                                                                                                                                                                                                       | 4. Fifteen hundred dollars.                                                               |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                                                     | 5. Eight hundred dollars.                                                                 |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6 & 7. Our prospects are about what they were when we first commenced.                    |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              |                                                                                           |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. 15 to 18 ploughs, machinery ploughs, in value \$1,600; first rate quality, cast metal. |

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                         | 10. Quantity 16 tons; four hundred dollars; all domestic, procured in the county. |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                         | 11. None of the kind imported.                                                    |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                                        | 12. Three men, \$1 per day, not constantly employed.                              |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                        | 13. Six hours in the day.                                                         |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                         | 15. One horse.                                                                    |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                               | 16. Sold at home.                                                                 |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                              | 17. No foreign competition.                                                       |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                | 18. In Centre county, principally.                                                |
| 19. Whether any of the manufactures are exported to foreign countries? And if so, where?                                                                                                                                                                                | 19. None.                                                                         |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                              | 20. Sometimes for cash; a credit for three months only, payable in money.         |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                    | 22. Price the same from commencement. See answers to 9 and 10.                    |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                              | 23. The rates as they are now established by law.                                 |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                        | 24. No change necessary; we are content.                                          |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                        | 27. About eight hundred dollars.                                                  |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Quit the business if reduced, beyond all doubt.                               |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                             | 32. They are not remote, as far as regards this section of the country.           |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                            | 33. \$1,600; none borrowed.                                                       |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; and how gradual the reduction shall be?                                                                                                | 34. If any reduction takes place we are done.                                     |

## DOCUMENT 11.—No. 29—Continued.

| QUESTIONS.                                                                                                                       | ANSWERS.                                                     |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                              | 36. We are not aware of the extent of the supposed frauds.   |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                      | 37. We sell all we can manufacture without much delay.       |
| 38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824? | 38. It has greatly increased, but cannot say to what extent. |

JOHN DOLBERMAN.

April 25, 1832.

## DOCUMENT 14.—No. 30.

*Bloom and Bar Iron Manufactory, in Centre County, Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                          | ANSWERS.                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                           | 1. Centre county, Pennsylvania.                                                                                |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                | 2. Forge for manufacturing blooms and bar iron by water power.                                                 |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                             | 3. Completed in 1829. Not a joint stock concern.                                                               |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                     | 4. Twenty thousand dollars.                                                                                    |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages.                                                                                                                                                                                                     | 5. Five thousand dollars.                                                                                      |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. About six per cent.                                                                                         |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                      | 8. From fifteen to fifty per cent.                                                                             |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                               | 9. Fifty tons of blooms and fifty tons of bar iron; best Junia ta blooms \$60, and bar iron \$80 at the forge. |
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                                                                                                                                                                     | 10. 150 tons of pig mettle; cost \$4,500.                                                                      |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                   | 12. Twenty-five men and five boys at \$25 and \$10 per month.                                                  |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                    | 13. Twelve hours per day all the year on an average.                                                           |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                     | 15. Twelve horses and eight oxen.                                                                              |

## DOCUMENT 14.—No. 30—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                               | 16. A small proportion of bar iron sold at the forge; remainder sent 150 miles.              |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                | 18. At Pittsburgh.                                                                           |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                              | 20. On a credit of three to six months.                                                      |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                    | 22. Blooms from 80 to 95 dollars per ton; and bar iron from 95 to 120 dollars in Pittsburgh. |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                              | 23. At the rate of the tariff of 1828.                                                       |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                        | 27. Five thousand dollars agricultural; two thousand other.                                  |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. I would abandon the business.                                                            |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. I would go to some other country, and seek for better protection.                        |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent., and how gradual the reduction should be?                                                                                             | 34. By any reduction of the tariff of 1836, six per cent. could not be realized.             |
| 40. Average rate of wages?                                                                                                                                                                                                                                              | 40. Answered in query 12th.                                                                  |

JOHN PLUMBE,  
*Alleghany Forge, near Philipsburg.*

*May, 1832.*

## DOCUMENT 14.—No. 31.

*Blast Furnace and Forge, Centre County, Pennsylvania.*

| QUESTIONS.                                                                           | ANSWERS.                                     |
|--------------------------------------------------------------------------------------|----------------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Centre county, Pennsylvania.              |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. Blast furnace and forge, by water power.  |
| 3. When established, and whether a joint stock concern?                              | 3. We commenced 1825. Individual enterprise. |
| 4. Capital invested in ground and buildings, and water power, and in machinery?      | 4. Thirty thousand dollars.                  |

## DOCUMENT 14—No. 31.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                  | ANSWERS.                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages.                                                                                                                                                            | 5. Yearly stock in trade twenty-five thousand dollars.                                                                                                                                                                                                                                |
| 7. Causes of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                      | 7. We attribute the decrease in price to the competition in our own manufacture, and the increase in the market of foreign iron of every shape and form imaginable.                                                                                                                   |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                       | 9. In 1831 we made 980 tons pig iron, \$25; 30 tons castings, \$60; 50 tons bar iron, \$80; 280 tons blooms, \$65. This is, for each year, a fair estimate.                                                                                                                           |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                             | 11. We believe our iron, on impartial investigation, to be equal to the foreign (Old Sable) iron; in this market worth \$100.                                                                                                                                                         |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                            | 12. 85 hands employed annually; average wages 22 dollars per month.                                                                                                                                                                                                                   |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                            | 13. 12 hours per day in the summer, and 8 in the winter.                                                                                                                                                                                                                              |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                             | 15. 43 head of horses, and 3 yoke of oxen.                                                                                                                                                                                                                                            |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                   | 16. One-third at the manufactory; the balance we send 300 miles.                                                                                                                                                                                                                      |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                  | 17. It is a notorious fact that, on offering our iron in the sea-board market at this time, we are at once told that the market is so completely stocked with foreign iron at reduced prices, that our own manufacture will scarce maintain refunding prices under existing expenses. |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                    | 18. In the United States.                                                                                                                                                                                                                                                             |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                  | 20. All our sales are at 4 and 6 months' credit.                                                                                                                                                                                                                                      |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. Our expenses has increased in labor 5 per cent. annually, since our commencement, but in no other way.                                                                                                                                                                            |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                        | 22. In 1825 we sold bar iron in the sea-board market at 100 dollars. It has decreased in price four per cent. per annum. It is now 80 dollars per ton.                                                                                                                                |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                  | 23. The tariff of 1828 is fully adequate to our protection, if its provisions are put in active force.                                                                                                                                                                                |
| 24. Is any change necessary in levying or collecting the duty on such articles, to prevent fraud?                                                                                                                                                           | 24. We are led to believe there are many frauds committed.                                                                                                                                                                                                                            |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                            | 27. We consume annually 2,000 bushels wheat; 5,500 bushels rye and corn; 35,000 pounds pork and beef; 1,000 bushels potatoes; 50 tons hay; 35 tons straw; 500 bushels oats, and 6,000 dollars of domestic manufactures of different kinds.                                            |

DOCUMENT 14.—No. 31.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                     | ANSWERS.                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?</p> | <p>29. No sooner shall the proposed reduction on the foreign manufacture be established, than the domestic manufacturer, making a choice of necessity, will be compelled to abandon his pursuits.</p>                                                                                                 |
| <p>30. If it would cause you to abandon your business, in what way would you employ your capital?</p>                                                                                                                                                                          | <p>30. Do not know.</p>                                                                                                                                                                                                                                                                               |
| <p>31. Is there any pursuit in which you could engage, from which you could derive greater profits even, after a reduction of the import duties to 12½ per cent.?</p>                                                                                                          | <p>31. Distressing, indeed, in our opinion, would be the business of our country, (if, after a reduction of import duties to 12½ per cent.,) we would be unable to engage our capital in any other business that would not be infinitely more profitable, and without half the liability to lose.</p> |
| <p>32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?</p>                                                                             | <p>32. No. 16 answers this question.</p>                                                                                                                                                                                                                                                              |
| <p>33. Amount of capital, and what proportion the borrowed capital bears to that which is real?</p>                                                                                                                                                                            | <p>33. Not a dollar of borrowed capital is the concern.</p>                                                                                                                                                                                                                                           |
| <p>34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent.; and how gradual the reduction shall be?</p>                                                                                              | <p>34. The candid opinion of most manufacturers of iron at this time, is, that any reduction of duty that would tend to increase the foreign article in our market must inevitably drive us out, and destroy us as manufacturers.</p>                                                                 |

GENTLEMEN: In the above schedule, we have answered such queries as we, at such short notice, conveniently could.

Respectfully,

IRWIN & HOUSTON.

## DOCUMENT 14.—No. 32.

*Iron Works, Centre County, Pennsylvania.*

| QUESTIONS.                                                                                  | ANSWERS.                                                                                                           |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <p>1. State and county in which the manufactory is situated?</p>                            | <p>1. Situated in Centre county, Pennsylvania.</p>                                                                 |
| <p>2. Kind or description of the manufactory, and whether water, steam, or other power?</p> | <p>2. Two forges, one furnace and rolling mill, and nail factory.</p>                                              |
| <p>3. When established, and whether a joint stock concern?</p>                              | <p>3. First commencement of these works about 1800, since improved and enlarged. Owned only by the subscriber.</p> |

DOCUMENT 14.—No. 32.—Continued.

## QUESTIONS.

4. Capital invested in ground and buildings, and water power, and in machinery?

5. Average amount in materials, and in cash for the purchase of materials and payment of wages?

6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed?

7. Cause of the increase, (or decrease, as the case may be,) of profit?

8. Rates of profit on capital otherwise employed in the same State and county?

9. Amount of articles annually manufactured since the establishment of the manufactory. Description, quality, and value of each kind?

12. Number of men, women, and children employed, and average wages of each class?

13. How many hours a day employed, and what portion of the year?

14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?

15. Number of horses or other animals employed?

16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?

17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?

19. Whether any of the manufactures are exported to foreign countries? and if so, where?

20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? If bartered, for what?

21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?

## ANSWERS.

The works are situated on 3 tracts of about 1000 acres of land; part of it is fit for cultivation, the buildings extensive and good. The water power first rate; machinery good, though not now in complete repair. Annexed to the works are about 10 or 15,000 acres of land, part good farming land, and part mountainous.

6 & 7. I had a large capital invested until the end of the war of 1812, and for a few years afterwards. Then provisions and goods and labor became cheap, so that the manufacturers of iron were enabled to sustain the difficulties arising from various causes, until the tariff of 1828. I had hitherto sustained very severe reverses successfully, and since that, the competition, from the increased number of manufactories, has made the difficulties no less great.

8 & 9. The rate of profit has varied. From 1812 to 1828 hammered, at Pittsburgh, brought 120 to \$200 per ton. Since that time, its price is about \$110—the different qualities in proportion. My trade has been generally with Pittsburgh.

12, 13, & 14. I employ generally about 75 wood choppers in winter and spring. Some work by the job, some by the cord at about 40 cents. The average of all our lands is now about 100, formerly much greater in number. My works are not at this time so extensively in operation as they were a few years ago. The wages of laborers bear a proportion to those otherwise employed. By the day about 75 cents: per month, from 16 to 30 dollars.

15. About 80 horses and oxen are employed.

16. Much of the iron I make is hammered, which has a readier sale at the works than rolled bar iron. My market is generally at Pittsburgh.

17. The market being at Pittsburgh, the foreign competition is not so great as at the sea-board. Still it has an injurious influence.

19 & 20. The iron I make is sold on credit or barter. The credit is suited to the merchant who purchases, and the barter, such articles as bacon, glass, &c., which I use, or can again sell at par.

21. The cost of iron to me has varied from 1812 to this time, from various causes.



| QUESTIONS.                                                                                                                                                                                                                                                                                                                                       | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>22. The prices at which the manufactures have been sold by the manufacturer since the establishment?</p>                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p>23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?</p>                                                                                                                                                                                                | <p>22 &amp; 23. The duty on iron is not more than sufficient to protect the manufacturer. My trade has been and may be with Pittsburgh by wagons. My works are in a new country, which is not altogether able as yet to supply us with necessaries, so that they must come from abroad at great cost and labor. When these disadvantages no longer exist it will be different. A few years hence we will be able to go to Pittsburgh by canal, &amp;c. except a land carriage by wagons of 30 miles.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p>24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?</p>                                                                                                                                                                                                                                          | <p>24. The necessity of protecting us from fraud comes from the importation of railroad iron. Something ought to be done in this respect.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <p>25. What has been the rate of your profits, annually for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually?</p> | <p>25. From many causes, not excepting the increased number of iron works in this country, profits have been small.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p>26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?</p>                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p>27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?</p>                                                                                                                                                                                          | <p>26 &amp; 27. I use about 5000 bushels of rye and corn, 5000 wheat, 50,000 weight beef and pork, besides articles of foreign and domestic merchandise, both cotton and woolen; also a large quantity of groceries, &amp;c.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>29. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?</p>                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                  | <p>29. It is out of the question that I could continue in this business if the duty is reduced to 12½ per cent. I consider it even now too low. Nor can it be that a corresponding reduction of duty on articles of foreign manufacture used by me, would have any reducing or saving effect. I am confirmed in this belief by the experience of 40 years. Since the tariff of 1828, domestic goods, such as are used at iron works, have become cheaper and better, and in much greater abundance: the farmer has a ready sale for his produce, and a general prosperity prevails. All this will increase and continue if the Government does its duty. If the tariff is in the least diminished, the very reverse must be the consequence. The protection which the tariff of 1828 has afforded to manufactures, has produced astonishing effects. For many years our farmers had a small surplus for the seaboard market, but generally at bad prices; now the prices are as good, if not much better, at home, than abroad. The agricultural interest therefore is assisted as well as that of the manufacturer, and no change from foreign war can disturb it if the Government does not interfere.</p> |

In addition to the foregoing, I would submit a few facts. In the years 1813, 1814, 1815, 1816, 1817, land varied from 12 to 30 dollars per acre. Difficulties arising from the war, &c. &c. &c. reduced it to the minimum. Industry effected wonders, but the tariff of 1828 assisted the farmers effectually. Since that the price of land per acre has increased gradually from \$18 to \$38 per acre. This arises from the market we have at home. We are 350 miles from the seaboard, and the market of the farmer there would not be greater than at home. Hence the increase of price per acre.

P. BENNER.

Rock Iron Works, 16th April, 1832.

DOCUMENT 14.—No. 33.

*Roland Curtin & Sons', Eagle Iron Works, Centre County, West Pennsylvania.*

| QUESTIONS.                                                                           | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Bald Eagle valley, county of Centre, and State of Pennsylvania.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. One forge, with six fires, one furnace, and one rolling mill, now in operation, and propelled by water power. We are constructing, and preparing to erect, another furnace and forge on said Bald Eagle creek.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3. When established; and whether a joint stock concern?                              | 3. The above forge was in operation in 1811; the furnace in 1818; and the rolling mill in 1830. I am now in partnership with three of my sons, in the proceeds of said establishments.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 4. Capital invested in ground and buildings, and water power, and in machinery?      | 4. I own about thirty thousand acres of land, a part whereof is very fertile, and well improved and tenanted. A considerable portion is composed of ridge and barren land, calculated to supply iron works with timber and iron ore. My head and tail races are very long, for the purpose of procuring a sufficiency of water power; and my dams have been erected at a considerable expense. There are upwards of sixty-two houses occupied by the workmen, besides four good and substantial houses for myself, managers, and clerks. I might, of course, calculate the various plantations, the ore and wood tracts, the buildings, the grist and saw mills, the water power and machinery, during the existing tariff, worth to me and family two hundred thousand dollars. |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?              | 7. After the last war provision and store goods decreased in price, and labor sunk accordingly, which enabled the iron-masters, who survived the shock occasioned by the reduction of the duties, to make a handsome profit till 1828; then the rage of iron works became so great, that provisions and labor rose rapidly in price, so that the greatest economy and attention became requisite to make much profit, particularly when the great competition lowered the price of iron at home, at Pittsburgh, and on the sea-board.                                                                                                                                                                                                                                            |

| QUESTIONS.                                                                                                                                        | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <p>9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?</p>      | <p>9. From 1811 to 1828, I sold hammered iron in Pittsburgh from \$150 to \$220 per ton; but has lately been reduced to \$110. In Baltimore I sold iron, in 1828, for \$105 per ton; and have since sold some for \$80—in consequence, I presume, of the great competition occasioned by the erection and renewal of several other iron works, lately put into operation in this and other States by enterprising individuals, who had placed implicit confidence in the stability and permanency of our laws.</p> |
| <p>12. Number of men, women, and children, employed; and average wages of each class?</p>                                                         | <p>12. During the winter we employ, of late years, about 100 wood choppers, at 40 cents per cord; and during the spring, summer and fall, some of the said choppers are employed in coaling and hauling wood and leaves. At the works now in operation we employ about 75 hands, besides a considerable number now engaged at the new works. The wages of said seventy-five men might be averaged at \$250 annually. We do not employ any women, except in the boarding houses.</p>                                |
| <p>13. How many hours a day employed; and what portion of the year?</p>                                                                           | <p>13. At the forge they generally work by the job. At the furnace and rolling mill some are bound to perform their respective undertakings; and the monthly hands generally work during the whole day, except at meal hours.</p>                                                                                                                                                                                                                                                                                  |
| <p>15. Number of horses or other animals employed?</p>                                                                                            | <p>15. We use, for various purposes, 69 horses and 4 yoke of oxen.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?</p>                                  | <p>16. We do not sell the sixth part of our iron at the works, and are therefore forced to forward some to Pittsburgh, and the greater part by water to Philadelphia, to Baltimore, and to New York.</p>                                                                                                                                                                                                                                                                                                           |
| <p>17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?</p>                 | <p>17. I deem it superfluous to remark, that our iron on the sea-board must meet with too much competition; and I am apprehensive that our railroads and canals will enable foreigners to pester us with the sales of our iron in our own vicinity. But time will develop to what extent we might be thereby injured.</p>                                                                                                                                                                                          |
| <p>20. Whether the manufacture is sold by the manufacturer for cash? and, if on credit, at what credit? if bartered, for what?</p>                | <p>20. I had formerly purchased a considerable portion of my necessities for bar iron and for castings; but the great increase of iron works has materially curtailed that advantage. Our iron on the sea-board is generally sold on a credit of six, nine, and twelve months.</p>                                                                                                                                                                                                                                 |
| <p>23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?</p> | <p>23. I am of the opinion, that the actual rate of duty is low enough to enable us to compete with the foreign iron, particularly when we are obliged to conduct our works in a mountainous and newly settled country, where the farmers are not able to meet at present, the immense consumption required by the many works now in operation. But if Congress will be inclined to continue the</p>                                                                                                               |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                         | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <p>24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?</p>                                                                                                                                                                                                                                            | <p>present duties for ten years longer, the iron masters would then disregard all competition from abroad; for during that time they would become more versed in the knowledge of labor-saving machinery; more stone coal banks would be discovered; the canals and railroads would be fully completed; the fertile part of the country would be more improved; the population would become more dense; and labor and provisions would be more easily procured, and at a much cheaper rate.</p>                                                                                                                                                                                                                                                                                                                                                                 |
| <p>25. What has been the rate of your profits, annually, for the last three years? and, if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually?</p> | <p>24. If the importers of railroad iron could be obliged to pay the full duty on all the railroad iron imported; in that case our Government, at the end of each year, should reimburse to all the railroad companies the whole duty on all the iron actually consumed in the construction of their respective railroads during said year. This course would, in my humble opinion, do justice to all parties, and check the imposition practised by designing men.</p>                                                                                                                                                                                                                                                                                                                                                                                        |
| <p>27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?</p>                                                                                                                                                                                            | <p>25. By the aid of our rolling mill, we manufactured, last year, 625 tons. Our profits amounted to above six thousand dollars; but during the two preceding years, collectively, we hammered and rolled about 665 tons; and our profits in said two years (in consequence of failures in some of our customers,) did not amount to quite \$8,000. We made no dividend, for we purchased property for the new establishments.</p>                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p>29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?</p>                                                                     | <p>27. We consume 6,000 bushels of rye and corn; 4,500 bushels of wheat; about 100,000 weight of beef and pork; about 200 tons of hay; from 12 to 15,000 bundles of straw; and 1,000 bushels of oats and buckwheat; and foreign and domestic store goods to upwards of \$20,000.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                    | <p>29. I am at a loss to ascertain how the Government can reduce the importation of iron at so many different sea ports without checking it by a heavy duty; and I do, therefore, feel confident that I would be annually sinking money, under a protection of 12½ per cent. If the General Government, or some file leader of the anti-tariffists, would purchase my property at a fair valuation, I would, in that case, cheerfully undertake merchandising, and enjoy thereat the sweets of life, and at the same time educate my family, and clear more money with the capital vested in those works; but a repeal of the duty on iron, without a sale, completely nullifies the capital, for the property is generally calculated for iron works, and would then become no object to any man of business. Those, however, who own a good ore bank, and</p> |

## DOCUMENT 14.—No. 33.—Continued.

| QUESTIONS. | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <p>plenty of wood contiguous to their work, will be able to escape the shipwreck, and afterwards become wealthy; for the competition at home then will be done away by the destruction of forge owners, and even of those who have small capitals, and have to haul their wood and ore too far. Permit me now, in conclusion, to state that Congress, during the last war, doubled the duties on all foreign imports, and encouraged the citizens to commence manufacturing, by declarations on the floor of Congress that the duties should be continued; but, to their astonishment, the duties were repealed immediately after the war, and the country so much inundated with foreign goods, that the manufacturers, who had, unfortunately, confided in the stability of the Government, became bankrupts. After the lapse of a few years another Congress experienced the necessity of a protective system, and passed a new tariff act on a larger scale; but the manufactories, during the war, passed by sheriff sales into the hands of a more fortunate set of men, and some of the original owners and families are to this day employed through the country to earn a pittance by the sweat of their brows. Are the present members of Congress preparing for the same game? I hope not, but am nevertheless apprehensive of the result of their proceedings this session.</p> |

EAGLE IRON WORKS, April 18, 1832.

ROLAND CURTIN, for  
ROLAND CURTIN & SONS.

## DOCUMENT 14.—No. 34.

*Statement of Valentine and Thomas's Iron Manufactory.*

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. State and county in which the manufactory is situated?</li> <li>2. Kind or description of the manufactory, and whether water, steam, or other power?</li> <li>3. When established, and whether a joint stock concern?</li> <li>4. Capital invested in ground and buildings, and water power and machinery?</li> <li>5. Average amount in materials, and in cash for the purchase of materials and payment of wages?</li> </ol> | <ol style="list-style-type: none"> <li>1. Centre county, Pennsylvania.</li> <li>2. Furnace, forges, and rolling mill; water.</li> <li>1815; a company of five persons, tenants in common.</li> <li>4. About \$110,000.</li> <li>5. Pay in materials \$10,000, in cash \$40,000 annually.</li> </ol> |

## DOCUMENT 14.—No. 34—Continued.

## QUESTIONS.

6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed?

8. Rates of profit on capital otherwise employed in the same State and county?

9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?

10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?

11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?

12. Number of men, women, and children employed, and average wages of each class?

13. How many hours a day employed, and what portion of the year?

15. Number of horses or other animals employed?

16. Whether the manufactures find a market at the manufactory; if not, how far they are sent to a market?

17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?

18. Where are the manufactures consumed?

19. Whether any of the manufactures are exported to foreign countries; and if so, where?

21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?

22. The prices at which the manufactures have been sold by the manufacturer since the establishment?

23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?

25. What has been the rate of your profits annually for the last three years; and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually.

## ANSWERS.

6. Nine per cent. on original capital \$10,000; none borrowed; often largely in debt, without interest. No wages allowed for the five active partners.

8. 25 per cent. on store-keeping; other business not known.

9. 1,200 tons of pigs at \$25; 700 tons bar iron at \$90; 50 tons nails at \$140; 1,000 tons of above pigs used in making the iron.

10. 11,000 cords of wood, 4,000 tons of ore, 30,000 bushels stone coal; all domestic, and included in charges above.

11. Iron of same quality from Russia and Sweden from \$90 to \$100; English of inferior quality at lower rates.

12. Men 106, wages from \$14 to \$50 per month, average about one dollar per day.

13. At work about ten hours each day all the year.

15. 60 horses; no other animals employed.

16. About one-seventh sold at home; balance sent from two to seven hundred miles.

17. At our distant markets they do, but never here.

18. Philadelphia, New York, Pittsburgh, and Louisville, Kentucky.

19. None that we know of, except a few blooms to England to be tried for steel.

21. The price of labor has varied highest in 1815 to 1820, lowest from 1820 to 1824; great advance since.

22. From 1815 to 1820 bar iron at \$130 to \$220 at distant markets.

23. For charcoal iron \$1 per cwt. is ample; we fear no nation at that rate of protection.

25. We believe our profits to be about \$10,000; this income is mostly laid out in woodlands and real estate, mostly for the use of the works.

## DOCUMENT 14.—No. 34—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                        | 27. 10 to 12,000 bushels of rye and wheat, 60,000 lbs. pork, 30,000 lbs. beef.                                                                                                                                                                   |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. We think iron needs more protection than many other articles there is so much labor necessary, and that of the hardest kind, the machinery used being common to all countries; at 12½ per cent. less than present prices we would not go on. |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                             | 32. Towards the seaboard, no foreign comes within 90 miles.                                                                                                                                                                                      |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                            | 33. None borrowed.                                                                                                                                                                                                                               |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent., and how gradual the reduction should be?                                                                                             | 34. We are unable to say.                                                                                                                                                                                                                        |

VALENTINE &amp; THOMAS.

## DOCUMENT 14.—No. 35.

*Iron Furnace and Forge, Centre County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Centre county, Pennsylvania.                                                                                                                          |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Furnace and forge; water power.                                                                                                                       |
| 3. When established; and whether a joint stock concern?                                                                               | 3. Established in 1830; joint stock.                                                                                                                     |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                       | 4. Fifty thousand dollars.                                                                                                                               |
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                 | 7. Profits have decreased: cause, decrease in price of iron; increase in price of wages to hands.                                                        |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. 900 tons pig iron, value at the works for the part sold, \$24 per ton; 75 tons castings, \$50; 250 tons blooms, \$60; 50 tons bar iron, \$75 per ton. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?       | 10. A part of pig iron sent to Philadelphia and Baltimore; value \$22 at the works.                                                                      |
| 12. Number of men, women, and children employed, and average wages of each class?                                                     | 12. Number of men 88, at \$22 per month, principal part of which have families.                                                                          |
| 13. How many hours a day employed, and what portion of the year?                                                                      | 13. Average 10 hours.                                                                                                                                    |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                                                           | 14. In this county, about \$17 per month.                                                                                                                |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. Fifty horses, two yoke oxen.                                                                                                                         |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to market?                                                                                                                                                                                                                                    | 16. One-fourth sold at works, the balance sent to Philadelphia, Baltimore, and Pittsburgh; 200, 260, 260 miles.                                          |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Sales at 6 months; bartered for grain, beef, pork, vegetables, and store goods.                                                                      |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased, and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                 | 21. Our establishment is a new one, and not fairly brought into operation; cannot fairly answer all those queries.                                       |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. Answered above; 9th query.                                                                                                                           |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. The present rate of duty until the price of labor comes down.                                                                                        |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Our expenses as yet have exceeded our profits.                                                                                                       |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. Not ascertained.                                                                                                                                     |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. 5,000 bushels rye and corn, 2,000 do. wheat, 20 tons pork, 15 tons beef; amount of other domestic articles not known.                                |
| 29. If the duty upon the foreign manufactures of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                   | 29. We would be compelled to abandon our works at a great loss.                                                                                          |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. We cannot say; but should we be compelled to stop, the greater part would be lost.                                                                   |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                              | 31. Any business would be better, had we any thing left to commence with.                                                                                |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                                                                                                | 32. We formerly sent large amounts of iron to western parts of New York, in exchange for salt, but at present that market is supplied with foreign iron. |



## DOCUMENT 14.—No. 36.

*Lamar Furnace, Centre County, West District, Pennsylvania, April 13, 1832.*

| QUESTIONS.                                                                                                                                                                                                                                                                                            | ANSWERS.                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                             | 1. Centre county, Pennsylvania.                                                                                               |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                  | 2. Furnace; water power.                                                                                                      |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                               | 3. Established in 1830; joint stock.                                                                                          |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                       | 4. Thirty thousand dollars.                                                                                                   |
| 6. Annual rate of profit on the capital invested, since the establishment of the manufactory: distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. Unprofitable as yet.                                                                                                       |
| 7. Cause of the increase, (or decrease, as the case may be) of profit?                                                                                                                                                                                                                                | 7. Owing to the diminished value of the manufactured article, and increased price of agricultural products, and hands' wages. |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                 | 9. 1,000 tons pig iron, rate at the works, \$24 per ton; 175 tons castings at \$50 per ton.                                   |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                     | 12. Number of men, fifty; generally families; wages \$21 per month.                                                           |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                      | 13. Averaging 10 hours.                                                                                                       |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                      | 14. \$17 per month.                                                                                                           |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                       | 15. 30 horses; 3 yoke of oxen.                                                                                                |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                             | 16. A portion sold at the works; balance sent to Philadelphia and Baltimore, 200 miles.                                       |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                            | 20. Sold at 6 months; bartered for beef, pork, wheat, rye, &c.                                                                |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                            | 21. This establishment is comparatively new; and has not yet been fairly tested.                                              |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                            | 23. The existing duty ought to be continued, until at least a diminution of the price of labor takes place.                   |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                      | 27. 4,000 bushels rye, 1,500 bushels wheat, 15 tons pork, 5 tons beef, and 1,000 bushels potatoes, 40 tons hay.               |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent, with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                | 29. Would be compelled to abandon our business.                                                                               |

## DOCUMENT 14.—No. 36—Continued.

| QUESTIONS.                                                                                                                                                                                  | ANSWERS.                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                              | 30. Cannot say. An abandonment of business would probably occasion insolvency. |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle? | 32. In reference partly, but not entirely so.                                  |

CURTZ, HEPBURN, &amp; Co.

## DOCUMENT 14.—No. 37.

*Iron Furnace and Forge, Columbia County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Columbia county, Pennsylvania.                                                                                   |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Furnace and forge; by water power.                                                                               |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Furnace built in 1820, forge 1827; owned by an individual.                                                       |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | *4. Valued in cash at \$30,000.                                                                                     |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                                                     | 5. Fifteen or sixteen thousand dollars.                                                                             |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. Two and a half per cent.; none borrowed worth mentioning.                                                        |
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                                | 7. Increase the last year, on account of a more perfect knowledge of working the ore, and constant supply of water. |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Say from 6 to 15 per cent.                                                                                       |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. 400 tons: 300 of which is pig iron, at \$29, and 100 tons castings, \$70 per ton; bar iron, 100 tons, at \$90.   |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. Coal and ore, \$7,000.                                                                                          |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. From 70 to 85 dollars per ton.                                                                                  |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. Say 40 men, at about 75 cents per day.                                                                          |

## DOCUMENT 14.—No. 37—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                                                           | 13. About 12 hours.                                                                                          |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                                                           | 14. Perhaps about the same.                                                                                  |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. Fourteen on the works, and six additional hired during the year.                                         |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. Nearly all sold at the works, or within 20 or 30 miles.                                                  |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                                                                 | 17. Light English or Swedish iron can be sold in this district 20 per cent. lower than manufactured here.    |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. In the neighborhood of the works, except a few tons for gun barrels, on account of its superior quality. |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                                                                                                  | 19. None.                                                                                                    |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Seventy-five per cent. barter, 25 per cent. cash.                                                        |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                | 21. No material change.                                                                                      |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. From \$100 to \$90 at present.                                                                           |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. Light iron 20 per cent. increased duty, heavy iron less.                                                 |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. Best answered at seaports.                                                                               |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Say perhaps three per cent.                                                                              |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. Principally in the materials and labor.                                                                  |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. Perhaps \$8,000; domestic \$1,000.                                                                       |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29. Could not manufacture at reduced prices.                                                                 |

## DOCUMENT 14.—No. 37—Continued.

| QUESTIONS.                                                                                                                                                                                  | ANSWERS.                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                              | 30. Ruin would be the consequence, inevitably, as my property would depreciate to nothing.                                                                                                  |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                               | 31. Reduction of duty would be ruinous to the business, and annihilate the value of the property: so that which is now valuable, would then be useless, and I would have nothing to invest. |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle? | 32. Not out of foreign competition either for iron or salt.                                                                                                                                 |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                | 33. Answered above.                                                                                                                                                                         |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; and how gradual the reduction should be?                   | 34. Increase the duty.                                                                                                                                                                      |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                 | 37. In this district 80 per cent.                                                                                                                                                           |

## DOCUMENT 14.—No. 38.

*Iron Foundry, Columbia County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Columbia county, Pennsylvania.                                       |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Iron foundry, in operation by water power.                           |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. In 1831; individual.                                                 |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. About \$2,000.                                                       |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. About \$5,000.                                                       |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. Not long enough in operation to ascertain.                           |
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. Mill gearing, machinery, and pattern work, generally about \$6,000. |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. Eight men, average \$20 per month.                                  |

## DOCUMENT 14.—No. 38—Continued.

| QUESTIONS.                                                                                                                 | ANSWERS.                                                     |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 13. How many hours a day employed, and what portion of the year?                                                           | 13. Fourteen hours the whole year.                           |
| 15. Number of horses or other animals employed?                                                                            | 15. Two.                                                     |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                  | 16. Sold at the foundry.                                     |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what? | 20. Six months, generally.                                   |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                       | 22. Castings from $4\frac{1}{2}$ cents to 8 cents per pound. |

## DOCUMENT 14.—No. 39.

*Iron Forge and Furnace, Columbia County, Western District of Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                              |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Pennsylvania, Columbia county.                     |
| 2. Kind or description of the manufactory?                                                                                            | 2. Forge and furnace. Furnace not in blast this year. |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Five thousand dollars.                             |
| 4. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                      | 4. Three thousand five hundred dollars.               |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Two per cent.                                      |
| 6. Cause of the increase (or decrease, as the case may be) of profit?                                                                 | 6. Foreign iron and competition.                      |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Fifty tons bar iron.                               |
| 8. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?        | 8. Five thousand bushels coal.                        |
| 9. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                        | 9. From sixty-five to eighty-five dollars.            |
| 10. Number of men, women, and children, employed, and average wages of each class?                                                    | 10. Eight men.                                        |
| 11. How many hours a day employed, and what portion of the year?                                                                      | 11. Twelve hours per day.                             |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. In the district.                                  |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?            | 13. Light iron considerably.                          |

## DOCUMENT 14.—No. 39—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| 14. Where are the manufactures consumed?                                                                                                   | 14. Columbia county, principally.                               |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. None.                                                       |
| 16. Whether the manufacture is sold by the manufacturer for cash; and if on credit, at what credit? if bartered, for what?                 | 16. Cash and barter.                                            |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. From \$100 to \$90, at first.                               |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. Heavy duty on light iron, and increased duty on heavy iron. |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 19. Two and a half per cent.                                    |
| 21. Average rate of wages?                                                                                                                 | 21. About 75 cents per day.                                     |

## DOCUMENT 14.—No. 40.

*Iron Foundry, Erie County, Western Pennsylvania.*

| QUESTIONS.                                                                                                                 | ANSWERS.                                         |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                  | 1. Erie county, Pennsylvania.                    |
| 2. Kind or description of the manufactory?                                                                                 | 2. Foundry for making castings of various kinds. |
| 3. Capital invested in ground and buildings?                                                                               | 3. Five hundred dollars.                         |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                            | 4. Amount of materials and wages, \$1,500.       |
| 5. Annual rate of profit on the capital invested?                                                                          | 5. Twenty per cent.                              |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent? | 13. Competition, none.                           |
| 14. Where are the manufactures consumed?                                                                                   | 14. Principally in the county.                   |

PHILETUS GLAS.

## DOCUMENT 14.—No. 41.

*Iron Foundry, Fayette County, Western Pennsylvania.*

| QUESTIONS.                                                                                                                                                    | ANSWERS.                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                     | 1. Fayette county, Pennsylvania.                   |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                                          | 2. Iron foundry, with two air furnaces.            |
| 3. When established; and whether a joint stock concern?                                                                                                       | 3. 1813, joint stock, but now owned by individual. |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                               | 4. Ground and buildings, \$4,000.                  |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                              | 5. Five thousand nine hundred dollars.             |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                         | 9. Must be castings, 150 tons, \$50, \$7,50        |
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                               | 10. Half ton domestic pig iron per day \$4,500.    |
| 16. Whether the manufactures find a market at the manufactory? if not, how far they are sent to a market?                                                     | 16. Market at home.                                |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                    | 17. No competition.                                |
| 18. Where are the manufactures consumed?                                                                                                                      | 18. In the United States.                          |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                    | 20. Cash.                                          |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                          | 22. From 7 cents down to 3 cents.                  |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                    | 23. None at all.                                   |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.? | 31. None, except I would turn storekeeper.         |

BRIDGEPORT, April 14, 1832.

WM. COCKE.

## DOCUMENT 14.—No. 42.

*Fullon Air Foundry, at Connellsville, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                | ANSWERS.                                           |
|-----------------------------------------------------------|----------------------------------------------------|
| 1. State and county in which the manufactory is situated? | 1. Fayette county, Pennsylvania.                   |
| 2. Kind or description of the manufactory?                | 2. Air foundry for making castings, machinery, &c. |

## DOCUMENT 14.—No. 42—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 3. Capital invested in ground and buildings?                                                                                               | 3. Fifteen hundred dollars.                                            |
| 4. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                           | 4. Two thousand five hundred dollars.                                  |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. Five thousand dollars.                                              |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. Eight hands for eight months of the year, at \$20 per month.       |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. Ten hours.                                                         |
| 12. Whether the manufactories find a market at the manufactory; if not, how far they are sent to a market?                                 | 12. Sold at home and abroad at a distance of from ten to sixty miles.  |
| 14. Where are the manufactures consumed?                                                                                                   | 14. Answered by query twelve.                                          |
| 16. Whether the manufacture is sold by the manufacturer for cash; and if on credit, at what credit; if bartered, for what?                 | 16. Occasionally for cash, and at a credit of from four to six months. |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Sold by the ton at \$ 60; by retail at four cents per pound.       |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. Not any thing less than the present rate.                          |
| 21. Average rate of wages?                                                                                                                 | 21. Answered in query tenth.                                           |

The above is believed to be a correct statement of affairs as connected with the Fulton air foundry, at Connellsville.

April 12, 1832.

ANDERSON, FRANCIS & Co.

## DOCUMENT 14.—No. 43.

*Engine Shop and Iron Foundry, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.                                         |
|-------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Fayette County, Brownsville, Pennsylvania.    |
| 2. Kind or description of the manufactory; and whether water, steam or other power?             | 2. Engine shop and iron foundry; steam power.    |
| 3. When established; and whether a joint stock concern?                                         | 3. 1832; individual stock.                       |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                 | 4. Eight thousand dollars.                       |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 5. Twenty thousand dollars for the present year. |



| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| 9. Amount of articles annually manufactured since the establishment of the manufactory! Description, quality, and value of each kind?                                                                                                                                                                                                      | 9. Must be at least 20,000 dollars.                  |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                                                          | 12. Suppose twenty men.                              |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. Two horses.                                      |
| 16. Whether the manufactures find a market at the manufactory; if not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. At the factory.                                  |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                                                                 | 17. No foreign competition.                          |
| 19. Whether any of the manufactures are exported to foreign countries; and, if so, where?                                                                                                                                                                                                                                                  | 19. No exports.                                      |
| 20. Whether the manufacture is sold by the manufacturer for cash; and if on credit, at what credit; if bartered, for what?                                                                                                                                                                                                                 | 20. For cash.                                        |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. An entire prohibition.                           |
| 25. What has been the rate of your profits annually, for the last three years; and, if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. The factory being in its infancy, cannot answer. |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. Four thousand dollars.                           |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29. Unless wages were reduced, I would abandon it.   |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. This very uncertain.                             |

The above answers, as far as practicable, I submit.

Brownsville, April 17, 1832.

JOHN SNOWDEN, Jr.

## DOCUMENT 14.—No. 44.

*Providence Rolling Mill, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                                                                                      | ANSWERS.                                        |
|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                       | 1. Fayette county, Pennsylvania.                |
| 2. Kind or description of the manufactory; whether water, steam, or other power?                                                | 2. Rolling mill and forge; steam power.         |
| 3. When established, and whether a joint stock concern?                                                                         | 3. 1832.                                        |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                 | 4. Sixty-two thousand dollars.                  |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                | 5. Twenty-five thousand dollars per year.       |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products? | 10. 1,200 tons pig iron, at \$36 per ton.       |
| 12. Number of men, women, and children employed, and average wages of each class?                                               | 12. Forty-five men and twenty boys.             |
| 13. How many hours a day employed, and what portion of the year?                                                                | 13. Twelve hours per day the whole year.        |
| 15. Number of horses, or other animals employed?                                                                                | 15. Thirty-six horses the whole year.           |
| 16. Whether the manufactures find a market at the manufactory; if not, how far they are sent to a market?                       | 16. Cincinnati, Ohio, and Louisville, Kentucky. |
| 20. Whether the manufacture is sold by the manufacturer for cash; and if on credit, at what credit; if bartered, for what?      | 20. From 60 to 90 days' credit.                 |
| 40. Average rate of wages.                                                                                                      | 40. Twenty dollars per month.                   |

PROVIDENCE ROLLING MILLS, near Brownsville, April 14, 1832.

ARTHUR PALMER.

## DOCUMENT 14.—No. 45.

*A. Springer's Forge, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Fayette county, Pennsylvania.    |
| 2. Kind or description of the manufactory; whether water, steam, or other power?                                                                                                                                                                                                                     | 2. Forge. Water power.              |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. 1798.                            |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Six thousand dollars.            |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. From 1824 to 1832 nine per cent. |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                                                      | 9. From 1826 to 1832, 75 tons bar iron at ninety-five dollars per ton.                      |
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                                                                                                                                                                                                            | 10. 112 tons pig iron, at \$30; 250 loads charcoal, at \$6 per load.                        |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                                                          | 12. Fourteen hands, at \$15 per month, 15 hours in the day and night, 7 months of the year. |
| 15. Number of horses and other animals employed?                                                                                                                                                                                                                                                                                           | 15. Six horses and two yoke of oxen.                                                        |
| 16. Whether the manufactures find a market at the manufactory? if not, how far they are sent to a market?                                                                                                                                                                                                                                  | 15. Two-thirds sold at home and one-third shipped to Pittsburgh, 45 miles.                  |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                                                                 | 17. Not any.                                                                                |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. In Pennsylvania and Ohio.                                                               |
| 19. Whether any of the manufactures are exported to foreign countries; and if so, where?                                                                                                                                                                                                                                                   | 19. Not any.                                                                                |
| 20. Whether the manufacture is sold by the manufacturer for cash; and if on credit, at what credit; if bartered, for what?                                                                                                                                                                                                                 | 20. Generally sold at four and six months' credit, for cash.                                |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                | 21. From 1826 to 1832 changeable from \$75 to \$125 per ton.                                |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Nine per cent.                                                                          |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. One half of it.                                                                         |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. One-fourth.                                                                             |
| 40. Average rate of wages?                                                                                                                                                                                                                                                                                                                 | 40. Fifteen dollars per month.                                                              |

UNION FOUNDRY, two miles north of Union Town,  
Fayette county, Pennsylvania, 1832.

AARON SPRINGER

## DOCUMENT 14.—No. 46.

*Report of Jacob Murphey's Union Forge, near Connellsville, Fayette County, West Pennsylvania, April 11th, 1832.*

| QUESTIONS.                                                                                                                                                                                                                                                 | ANSWERS.                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                  | 1. Fayette county, State of Pennsylvania.                              |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                       | 2. Iron; a forge; water power.                                         |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                    | 3. \$1,800.                                                            |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                            | 4. Twenty thousand dollars.                                            |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                           | 5. Say \$7,000.                                                        |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory?                                                                                                                                                               | 6. From 1829 to 1832, 8 per cent.                                      |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                      | 9. 1829 to 1832, 120 tons bar iron yearly, from \$80 to \$100 per ton. |
| 12. Number of men, women, and children employed. And average wages of each class?                                                                                                                                                                          | 12. \$18 per month; 10 hands.                                          |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                            | 15. 6 horses; 2 yoke of oxen.                                          |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                  | 16. Pittsburgh, 45 miles: one half sent off.                           |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                 | 20. Generally sold at 3 or 6 months, cash.                             |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. From \$10 to \$15 per ton, increase.                               |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                           | 27. Three-fourths of it.                                               |
| 40. Average rate of wages?                                                                                                                                                                                                                                 | 40. \$15.                                                              |

JACOB MURPHEY.

## DOCUMENT 14.—No. 47.

*Report of J. & G. Rogers' Blast Furnace for melting iron ore, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                | ANSWERS.                         |
|-----------------------------------------------------------|----------------------------------|
| 1. State and county in which the manufactory is situated? | 1. Fayette county, Pennsylvania. |

## DOCUMENT 14.—No. 47—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 2. Kind or description of the manufactory?                                                                                                 | 2. Blast furnace for smelting iron ore.                                                        |
| 3. Capital invested in ground and buildings?                                                                                               | 3. Eighteen thousand dollars.                                                                  |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                    | 6. Domestic competition immediately, though materially influenced by foreign.                  |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. 500 tons pig metal; from 25 to 30 tons stoves and castings.                                 |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. Suppose 35 horses and cattle.                                                               |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. From 50 to 60 men; part of which, say 20, with families that will average 4 to the family. |
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. 40 hours during the whole of the year.                                                     |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. From 10 to 45 miles.                                                                       |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the neighborhood and at Pittsburgh; principally the latter.                             |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Occasionally for cash, though generally at a credit of from 3 to 6 months.                 |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. From 26 to 36 dollars per ton.                                                             |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. The present rate at least.                                                                 |
| 21. Average rate of wages?                                                                                                                 | 21. About \$15 per month.                                                                      |

CONNELLVILLE, April 12, 1832.

The above answers to the queries we believe to be correct in relation to Fayette Furnace.

J. &amp; G. ROGERS.

## DOCUMENT 14.—No. 48.

*Report of Fairview Furnace, by Jas. Victor, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                                           | ANSWERS.                          |
|--------------------------------------------------------------------------------------|-----------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Fayette county, Pennsylvania.  |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. Fairview furnace; water power. |
| 3. When established, and whether a joint stock concern?                              | 3. 1820.                          |

## DOCUMENT 14.—No. 48—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                 | ANSWERS.                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| 4. Capital invested in ground and buildings, and water power and in machinery?                                                                                                                                                                             | 4. The amount \$10,000.                              |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                            | 5. Is \$9,500.                                       |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                      | 9. Three hundred tons pig iron.                      |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                          | 12. One hundred hands, or men and women, say 50 men. |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                           | 13. Sixteen hours per day.                           |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                            | 15. Ten head of oxen.                                |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                  | 16. Sent to the city of Pittsburgh, Pa.              |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                   | 18. In the valley of the Mississippi.                |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                 | 20. For cash, at ninety days' credit,                |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. It has increased since 1824.                     |

The above is a correct statement of Fairview Furnace, this 11th day April, 1832.

JOSEPH VICTOR.

## DOCUMENT 14.—No. 49.

*Report of J. Kennedy Duncan's, Fairchance Furnace, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                                                       | ANSWERS.                                                 |
|--------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                        | 1. Pennsylvania, Fayette county, George township.        |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?             | 2. Blast furnace; water power.                           |
| 3. When established; and whether a joint stock concern?                                          | 3. A. D. 1807.                                           |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                  | 4. Suppose \$12,000.                                     |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages? | 5. \$5,000 cash for materials; \$4,000 payment of wages. |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                          | 7. The cause of increase believed to be from tariff.     |

## DOCUMENT 14.—No. 49—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                      | 9. From 300 to 400 tons pig iron, with from 50 to 100 tons castings per year.                                                          |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                            | 10. Iron ore, from 1,000 to 1,200 tons; 100,000 bushels charcoal; 50 loads limestone.                                                  |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                           | 12. 50 men, as many women, and children in abundance.                                                                                  |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                            | 15. 15 to 20 horses constant employment; two to three yoke oxen.                                                                       |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                  | 16. Market at the establishment for the principal part; the remainder is sent to Pittsburgh.                                           |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                   | 18. Within this State, and the State of Ohio and western part of Virginia.                                                             |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                 | 20. Generally on a credit of from two to six months.                                                                                   |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. Increased since 1824.                                                                                                              |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                       | 22. Pig iron as high as \$62 per ton, and as low as 18 or \$20 per ton; castings as high as \$120 per ton, and as low as \$45 per ton. |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                           | 27. \$2,000 agricultural, \$1,500 domestic productions.                                                                                |

The above is a correct statement, according to the knowledge that I have of such matters, at Fairchance Furnace, State and county abovenamed.

J. KENNEDY DUNCAN

April 11, 1832.

## DOCUMENT 14.—No. 50.

*Report of John Huston's Iron Furnace, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                                           | ANSWERS.                                  |
|--------------------------------------------------------------------------------------|-------------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Fayette county, State of Pennsylvania. |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. Iron furnace; water power.             |
| 3. When established; and whether a joint stock concern?                              | 3. 1796.                                  |
| 4. Capital invested in ground and buildings, and water power, and in machinery?      | 4. Ten thousand dollars.                  |

DOCUMENT 14.—No. 50—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory: distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of the profit upon that portion which is not borrowed?                                   | 6. From 1824 to 1832, 10 per cent.                                                                                                       |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                                                      | 9. Since 1824 to 1832, 50 tons castings and 250 tons pig iron per year; castings \$50 per ton, and pigs \$30 per ton.                    |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                                                            | 10. 900 tons iron ore, cost \$3 per ton; and 600 loads coal, worth \$7 per load of 200 bushels.                                          |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                                                                                                           | 12. Thirty hands at \$15 per month.                                                                                                      |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                                                           | 13. Ten hours each day.                                                                                                                  |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. Eighteen head of horses and four yoke of oxen.                                                                                       |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. Two-thirds of pig manufactured into iron at forges in the neighborhood, and castings generally sold in Pittsburgh, 45 miles distant. |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                                                                 | 17. No.                                                                                                                                  |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. Indiana, Ohio, &c. &c.                                                                                                               |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                                                                   | 19. No, I think not.                                                                                                                     |
| 20. Whether the manufactory is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Generally sold at 4 or 6 months' credit, for cash.                                                                                   |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                 | 21. Changeable; from 1824 to this period it has varied from 6 to \$8 per ton.                                                            |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Ten per cent.                                                                                                                        |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. Three-fourths of it.                                                                                                                 |
| 40. Average rate of wages?                                                                                                                                                                                                                                                                                                                 | 40. \$15 per month.                                                                                                                      |

REDSTONE FURNACE, two miles east of Union Town, Pennsylvania, April 11, 1832.

JOHN HUSTON.



## DOCUMENT 14.—No. 51.

*Report of Dunbar Furnace, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                  | ANSWERS.                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                   | 1. Fayette county, Pennsylvania.                                      |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                        | 2. Furnace; water.                                                    |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                     | 3. 1816.                                                              |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                             | 4. 15,000 dollars.                                                    |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                             | 5. 4,000 dollars, (wages alone.)                                      |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                     | 7. Competition at home, and imported iron; cause decrease in profits. |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                       | 9. 250 tons in six months.                                            |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                             | 10. 600 tons ore, 79,000 bushels charcoal.                            |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                            | 12. 20 men, at 62½ cents per day.                                     |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                            | 13. 12 hours per day; 6 months.                                       |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                             | 15. 12 horses.                                                        |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                   | 16. Market 45 miles distant, freight \$2.                             |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                    | 18. Pittsburgh.                                                       |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                  | 20. As often on credit at 6 months, as for cash.                      |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. Fluctuating.                                                      |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                        | 22. In 1816, \$60 per ton; in 1822, \$35. now \$38.                   |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                  | 23. Nothing less than the present duty; should be more.               |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                | 26. Three-fourths; wages remainder.                                   |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                            | 27. Three-fourths the amount of the hands' wages.                     |

## DOCUMENT 14.—No. 51—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                             | ANSWERS.                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent, with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. To reduce would affect the iron master, because he does not make use of many imported articles. |

April 16, 1832.

WM. S. RANON.

## DOCUMENT 14.—No. 52.

*Manufactory of Blooms, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. State of Pennsylvania, Fayette county.                                                                                                                                          |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Manufactory of blooms; water power.                                                                                                                                             |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. October, 1831. It is a joint stock concern.                                                                                                                                     |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Twenty-five thousand dollars.                                                                                                                                                   |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                                                     | 5. Materials, &c. 4,000 dollars; cash required 5,000 dollars.                                                                                                                      |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. Twelve per cent. on investment when fortunate.                                                                                                                                  |
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                                | 7. The bloom business is better now than formerly, owing to a difficulty of getting blooms from other sections of country to market, the canal breaking, &c., demand for iron, &c. |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Average 15 to 20 per cent.                                                                                                                                                      |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. In six months, 200 tons blooms from pigs, worth 90 dollars per ton, and the iron of excellent reputation; 500 or 600 tons, annually, we will make.                              |
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. 900 tons pigs annually, worth \$31,500; coal stone, 10,000 bushels, worth \$400; charcoal 60,000 bushels, worth \$2,400.                                                       |
| 11. Cost in the United States of similar articles of manufactory imported from abroad, and from what countries?                                                                                                                                                                                      | 11. We never import our materials.                                                                                                                                                 |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. 52 men employed, receiving \$7,200 annually, being 1 dollar per day average.                                                                                                   |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                     | 13. Ten hours, except when stopped by cold.                                                                                                                                        |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                                                           | 14. Hands receive same wages in this State, and generally in others. In England, at same business, about one quarter of a dollar per day.                  |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. Twenty-five horses.                                                                                                                                    |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to market?                                                                                                                                                                                                                                    | 16. We send our blooms 45 miles to Pittsburgh.                                                                                                             |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                                                                 | 17. Some English iron has been bought, within a few weeks, at Pittsburgh for \$75 per ton, and cut up and rolled into small iron.                          |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. In Pittsburgh, and through Ohio, Tennessee, Kentucky, &c.                                                                                              |
| 19. Whether any of the manufactures are exported to foreign countries; and if so, where?                                                                                                                                                                                                                                                   | 19. None.                                                                                                                                                  |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Our terms of credit are generally four to six months.                                                                                                  |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                | 21. The price of mettle has increased in one year five dollars.                                                                                            |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. From \$90 to \$85 dollars per ton.                                                                                                                     |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. Nothing more than the present duty enforced.                                                                                                           |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. Decidedly yes. Hoop iron has been imported as scraps, and put into nails, evading a duty of \$30 per ton, by calling short pieces of nail iron scraps. |
| 25. What has been the rate of your profits, annually, for the last three years?—and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. We have been too short a time in this business to reply.                                                                                               |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. Five-eighths of mettle, two-eighths of fuel and wages, and one-eighth as profits.                                                                      |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. The workmen subsist 174 persons in their families, who are clothed and fed by this establishment.                                                      |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29. This reduction would take away all our profits, and, of course, we must abandon our business.                                                          |

DOCUMENT 14.—No. 52—Continued.

| QUESTIONS.                                                                                                                                                                                  | ANSWERS.                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                              | 30. In importing iron instead of drawing it from our mines.                                                                                                            |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                               | 31. We would fear to commence any business in future over which the Government had any control.                                                                        |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle? | 32. No! In Pittsburgh, 300 miles from one sea-board, and 2,000 miles from another, any rise or fall in nails or iron in Philadelphia or New Orleans, we feel sensibly. |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                | 33. Thirty-four thousand dollars real capital.                                                                                                                         |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; and how gradual the reduction should be?                   | 34. Any manufacturing business, when reduced to a profit of six per cent., would fail certainly in three years after such reduction.                                   |
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                         | 36. The Government would profit by it, and the manufacturer would have a tariff in fact as well as name?                                                               |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                 | 37. If we were let alone, we could supply our own wants.                                                                                                               |
| 38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?                                                            | 38. Manufacturing establishments increase about one-fourth more annually.                                                                                              |
| 39. Average profit of money or capital in the United States?                                                                                                                                | 39. Fifteen per cent. Running from 6 to 25 per cent.                                                                                                                   |
| 40. Average rate of wages?                                                                                                                                                                  | 40. 90 dollars per diem.                                                                                                                                               |

MILTENBERGER, BROWN & CO.

FRANKLIN IRON WORKS, May 7, 1832.

DOCUMENT 14.—No. 53.

*Iron Furnace, Huntingdon County, West Pennsylvania.*

| QUESTIONS.                                                                           | ANSWERS.                                                                                                  |
|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Pennsylvania, Huntingdon county, Morris's Cove, 12 miles distant from Williamsburg, &c.                |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. A blast furnace, propelled by water power; one twee.                                                   |
| 3. When established; and whether a joint stock concern?                              | 3. In 1818; commenced making iron in the autumn of 1819; an individual concern.                           |
| 4. Capital invested in ground and buildings, and water power and in machinery?       | 4. \$55,000, embraced in about 12,000 acres of land, 45 or 50 buildings, and a very valuable water power. |

| QUESTIONS.                                                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                          | 5. Annual expense is about \$24,500 for wages, feed, &c., besides the implements, wagons, teams, &c., not embraced in the amount.                                                  |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory: distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of the profit upon that portion which is not borrowed? | 6. No borrowed capital; and the average rate of profit on the real capital and annual expenses invested has been about equivalent to 8 per cent., after making good insurance, &c. |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                                  | 7. There are fluctuations in the value of pig iron, but they are caused by the high or low price of bar iron.                                                                      |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                           | 8. The rate of interest is 6 per cent. by law, but capital otherwise employed in small concerns very often produces 40 or 50 per cent.                                             |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                    | 9. About 1,300 tons metal annually, and about 50 tons castings, stoves, &c.; pig iron is far superior to any English iron, and is not surpassed by any in this country.            |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                          | 10. No foreign productions used.                                                                                                                                                   |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                          | 11. Cannot ascertain what pig iron will cost here.                                                                                                                                 |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                                                                         | 12. Average of 95 hands, with about 30 families; average rate of wages 20 dollars per month.                                                                                       |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                         | 13. Monthly hands from sunrise to sunset the whole year; furnace hands by turns, day and night; wood chopped per cord.                                                             |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                         | 14. Wages are not so high at any other manual labor in this country, except recently at some public works; they cannot be brought down.                                            |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                          | 15. 25 horses and 12 mules owned by the concern, besides about 10 horses hired to cart ore and pig iron.                                                                           |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                | 16. Yes; the owner of this concern manufactures the metal into bloom at his own forges, 8 miles distant; then sent to Pittsburgh, 95 miles.                                        |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                                | 17. Yes; some is brought into the interior.                                                                                                                                        |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                 | 18. The blooms are sent to Pittsburgh, and there rolled into boiler iron, and all other purposes, to suit the market which is there and down the Ohio.                             |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                                 | 19. None from here, and not much after it is converted into malleable iron, unless some to the south.                                                                              |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                               | 20. It is not sold for cash here, nor indeed sold at all, until it is manufactured into malleable iron.                                                                            |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                | 21. It yearly increases, owing to the increased wages, high price of grain, difficulty in raising the ore, and getting timber off the rough rugged mountains: the rate per annum averages nearly two per cent.                           |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. In 1822 metal was as low as \$22 per ton, and it has increased in value since 1824 \$5, sometimes up to \$27, now \$25.                                                                                                              |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. I do not know what rate, as it is the duty on bar iron that alone can protect either furnaces or forges.                                                                                                                             |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. Unacquainted with the modes of levying, and only know by information that frauds do exist.                                                                                                                                           |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. The rate of per cent. on all the capital, real, moveable, and personal, invested and employed, amounts to \$85,000 annually, yielding 10 per cent. during the last three years: there is not much retained, except for improvements. |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. No raw material purchased; the portion of labor is almost 5-8ths, and the 3-8ths of capital, &c.                                                                                                                                     |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. About 4,000 bushels rye, 3,000 wheat, potatoes, corn, buck wheat, &c., in proportion, worth between 6 and \$9,000.                                                                                                                   |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                       | 28. Do not know.                                                                                                                                                                                                                         |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29. I would try to carry on, but presume would clear more by selling off personal stock, and quit it.                                                                                                                                    |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. My capital consists in lands that I could not sell; of course could not turn it to any other purpose.                                                                                                                                |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent?                                                                                                                                                                               | 31. Yes, many, if I could turn it into available capital; but I cannot.                                                                                                                                                                  |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                                                                                                | 32. The circle extends to the nearest cheap communication, and my market is no nearer.                                                                                                                                                   |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                                                                                               | 33. Entire amount of capital is worth \$5,000 dollars; none borrowed; if the business is ruined it is not worth \$15,000.                                                                                                                |

## DOCUMENT 14.—No. 53—Continued.

| QUESTIONS.                                                                                                                                                                                                       | ANSWERS.                                                                                         |
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| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent., and how gradual the reduction should be?                                        | 34. It requires no reduction, for many works to make that: this is one of the best in the State. |
| 35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum? | 35. Remote from seaports, I am unacquainted with the mode of levying and collecting, &c.         |
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                                              | 36. Not sufficiently acquainted with the nature of those frauds to give an opinion.              |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                      | 37. Of pig metal there can be enough made for both continents when wages get lower.              |
| 38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?                                                                                 | 38. Do not know.                                                                                 |
| 39. Average profit of money or capital within the United States?                                                                                                                                                 | 39. Money is, by law, worth 6 per cent., but really would be 7 or 7½.                            |
| 40. Average rate of wages?                                                                                                                                                                                       | 40. \$17 per month common labor throughout the State, though higher at iron works.               |

For P. SHOENBERGER,  
JAS. KEMPF.

*Juniata Forge, Huntingdon County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                          |
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| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Pennsylvania, Huntingdon county, six miles distant from Huntingdon, on the Juniata river.                                                      |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. A four fired forge, propelled by water power, and styled Juniata Forge.                                                                        |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. In 1803; commenced making iron in 1804; an individual concern.                                                                                 |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. \$40,000, embracing, in about 7,000 acres of land, 23 or 25 buildings.                                                                         |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. Annual expense is about \$11,500 for wages, feed, &c., besides the implements, wagons, teams, &c., not included in this amount: no metal.      |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. No borrowed capital; and the average rate of profit on the real capital and annual expenses invested, has been about equivalent to 7 per cent. |
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                                | 7. There are fluctuations in the article.                                                                                                         |
| 8. Rates of profit on capital otherwise employed, in the same State and county?                                                                                                                                                                                                                      | 8. The rate of interest is six per cent. by law, but capital otherwise employed, in small concerns, very often produces from 30 to 60 per cent.   |

## DOCUMENT 14.—No. 53—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                                  |
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| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                                                      | 9. About \$50 tons of blooms; bar iron made of Juniata blooms are far superior to any English iron, and not surpassed.                                                                                                                    |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                                                            | 10. No foreign products used. *                                                                                                                                                                                                           |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                                                            | 11. Cannot ascertain what blooms will cost delivered here.                                                                                                                                                                                |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                                                          | 12. Average of about 45 hands with about 25 families; average rate of wages \$22 per month, exclusive of forgersmen, who work by the ton, at \$6.                                                                                         |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                                                           | 13. Monthly hands from sunrise to sunset the whole year; forgersmen by turns during day and night; wood choppers per cord, at 45 cents.                                                                                                   |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                                                           | 14. Wages are not so high at any other manual labor in this country, except recently at some public works: they cannot be brought down.                                                                                                   |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. Eighteen horses owned by the concern.                                                                                                                                                                                                 |
| 16. Whether the manufactures find a market at the manufactory? if not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. The owner of this concern manufactures the blooms at his own rolling mill at Pittsburgh, distant 120 miles, and transports them by land and water carriage, at various prices.                                                        |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                                                                 | 17. None are brought into the interior.                                                                                                                                                                                                   |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. Blooms are sent to Pittsburgh, and then rolled into boiler iron, and into all other kinds to suit the market on the Ohio river.                                                                                                       |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                                                                                                  | 19. None from here, and not much after it is converted into malleable iron, unless some to the south.                                                                                                                                     |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. It is not sold for cash here, nor, indeed, sold at all, until it is manufactured at his own rolling mill in Pittsburgh, 120 miles distant, into different kinds of iron.                                                              |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                | 21. It yearly increases, owing to the increase of wages, high price of grain, getting timber off the rough mountains; the rate per annum averages nearly — per cent.                                                                      |
| 22. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 22. Unacquainted with the mode of levying, and only know by information that frauds do exist.                                                                                                                                             |
| 23. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 23. The rate per cent. on all the capital, real, moveable, and personal, invested and employed, amounts to \$57,000 annually, yielding four per cent. during the three last years: there is not so much retained except for improvements. |



| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                            | 26. No raw materials purchased; the portion of labor is —, and — of capital, &c.                                                 |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                        | 27. About 2,100 bushels rye and corn, 1,500 bushels wheat, potatoes, buckwheat, &c., in proportion, worth between 2 and \$3,000. |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                    | 28. Do not know.                                                                                                                 |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Would try to carry on, but presume would clear more by selling off personal stock, and quit business.                        |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. The capital consists in lands that I could not sell: of course could not turn it to any other purpose.                       |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                           | 31. Yes, many, if I could turn it into available capital; but it cannot be, it won't sell.                                       |
| 32. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                            | 32. Entire amount of capital is worth 57,000 dollars; none borrowed: if the business is ruined it is not worth \$10,000.         |
| 33. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; and how gradual the reduction should be?                                                                                               | 33. It requires no reduction, for the works do not yield six per cent. on the capital invested.                                  |
| 34. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum?                                                        | 34. Remote from seaports, I am unacquainted with the mode of levying and collecting, &c.                                         |
| 35. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                                                                                                     | 35. Not sufficiently acquainted with the rate of those frauds to give an opinion.                                                |
| 36. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?                                                                                                                                        | 36. Do not know.                                                                                                                 |

For PETER SHOENBERGER,  
J. STEINMAN.

DOCUMENT 14—No. 54.

*Dorsey & Higgins, Barree Forge, Huntingdon County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. State and county in which the manufactory is situated?</p> <p>2. Kind or description of the manufactory; and whether water, steam, or other power?</p> <p>3. When established; and whether a joint stock concern?</p> <p>4. Capital invested in ground and buildings, and water power, and in machinery?</p> <p>5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?</p> <p>6. Annual rate of profit on the capital invested since the establishment of the manufactory: distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed?</p> <p>7. Cause of the increase, (or decrease, as the case may be,) of profit?</p> <p>8. Rates of profit on capital otherwise employed, in the same State and county?</p> <p>9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?</p> <p>10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?</p> <p>12. Number of men, women and children, employed, and average wages of each class?</p> <p>13. How many hours a day employed; and what portion of the year?</p> <p>14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?</p> <p>15. Number of horses or other animals employed?</p> <p>16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?</p> <p>17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?</p> <p>18. Where are the manufactures consumed?</p> <p>19. Whether any of the manufactures are exported to foreign countries? and, if so, where?</p> <p>20. Whether the manufacture is sold by the manufacturer for cash? and, if on credit, at what credit? if bartered, for what?</p> <p>21. Whether the cost of the manufactured article (to the manufacturer,) has increased or decreased; and how much in each year, from the establishment of the manufactory, and whether the increase has been in the materials or the labor, and at what rate?</p> | <p>1. Huntingdon county, Pennsylvania, nine miles from Huntingdon, on the Juniata.</p> <p>2. One forge, six fires; water power; and styled Barree Forge.</p> <p>3. Established in 1796; joint stock concern.</p> <p>4. \$25,000, with 8,956 acres of land; 32 buildings.</p> <p>5. The average amount of stock and cash for carrying on the works is about \$20,000.</p> <p>6. Annual rate, for the last three years, about five per cent. No part of the capital borrowed.</p> <p>7. Owing to the rise or fall of grain, labor, transportation, &amp;c. &amp;c.</p> <p>8. From 10 to 50 per cent.</p> <p>9. Average per year, since 1829, 245 tons blooms, and 233 tons bar iron. Average price for the three years, 1829, 1830, and 1831, about \$63 for blooms, and \$75 for bar iron, at the works.</p> <p>10. We work up 700 tons pig metal per annum, which cost at the forge \$26 per ton; and about 105,100 bushels charcoal, cost four cents per bushel.</p> <p>12. 50 men, average per month about \$21.</p> <p>13. 11 to 12 hours per day; average 50 hands throughout the year.</p> <p>14. From 12 to \$18 in this section of country.</p> <p>15. 35 horses, exclusive of those employed to haul iron and blooms to market.</p> <p>16. Sent to Pittsburgh market, distance 116 miles.</p> <p>17. No foreign iron or blooms come to the Pittsburgh market.</p> <p>18. In Pittsburgh and the Western country.</p> <p>19. None exported from here.</p> <p>20. No sales for cash; usual credit three to six months.</p> <p>21. Cost has increased, owing to the advance in price of grain, labor, and the difficulty of getting timber for coal, &amp;c.</p> |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                  | ANSWERS.                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                        | 22. For three years, ending April, 1832, average price at the works about \$63 for blooms, and \$75 per ton for bar iron.                                                     |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                  | 23. The present rate of duties are barely sufficient to keep up, or to enter into competition in the home market.                                                             |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                            | 24. Are unacquainted with the levying and collecting duties.                                                                                                                  |
| 25. What has been the rate of your profits, annually, for the last three years? and, if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. About five per cent. on the capital, real and personal, \$45,000 employed.                                                                                                |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                            | 27. 2,000 bushels wheat; 4,800 bushels rye and corn; 500 bushels potatoes; 3,000 lbs. beef; 18,000 lbs. bacon; hay, straw, butter, cheese, &c. &c.                            |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                        | 28. Do not know.                                                                                                                                                              |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                     | 29. We would abandon the business, for to go on would be certain ruin.                                                                                                        |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                              | 30. We would have no capital; stop the works, and our personal property could not be sold for any price; and the real estate consists of lands valuable only for coal timber. |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                               | 31. The farmers, manufacturers, and other tradesmen, can live by mutual dependence. Destruction of the one is ruin to all.                                                    |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                                                                                                 | 32. We find a market for our iron down the Ohio river, and in Pittsburgh.                                                                                                     |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                                                                                                | 33. Whole amount of capital \$45,000; none borrowed.                                                                                                                          |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; and how gradual the reduction should be?                                                                                                                                                                   | 34. The present rate of duties we do not realize 6 per cent. on the real capital invested.                                                                                    |

BARNES FORGE, May 4, 1832.

DORSEY &amp; HIGGINS.

## DOCUMENT 14.—No. 55.

*Iron Forges, Huntingdon County, West Pennsylvania.*

## QUESTIONS.

1. State and county in which the manufactory is situated?
2. Kind or description of the manufactory; and whether water, steam, or other power?
3. When established; and whether a joint stock concern?
4. Capital invested in ground and buildings, and water power, and in machinery?
5. Average amount in materials, and in cash for the purchase of materials and payment of wages?
6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed?
7. Cause of the increase (or decrease, as the case may be,) of profit?
8. Rates of profit on capital otherwise employed in the same State and county?
9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?
10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?
11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?
12. Number of men, women, and children employed, and average wages of each class?
13. How many hours a day employed; and what portion of the year?
14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?
15. Number of horses or other animals employed?
16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?
17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?
18. Where are the manufactures consumed?
19. Whether any of the manufactures are exported to foreign countries? and if so, where?

## ANSWERS.

1. Pennsylvania, Huntingdon county, 14 miles from Huntingdon, on Spruce creek.
2. 3 forges; in the whole 7 fires; water power, and styled Colerain Forges.
3. 2 of the forges in 1810 or 1811; the other in 1813 or 1814. A joint stock concern. The present company became owners by purchase in 1828.
4. \$30,000, with about 5,000 acres land; 25 buildings.
5. The average amount of stock and cash for carrying on the works is about 25,000.
6. None borrowed. The profit less than 6 per cent. since 1828.
7. Owing to the rise or fall of transportation, grain, labor, &c., &c.
8. From 20 to 50 per cent.
9. All bloom iron average per year, since 1828, 830 tons 12 cwt.; average price the 4 years 1828, 1829, 1830, and the year ending 1832, about \$63 at the works.
10. Pig iron, when delivered at the forges, is worth \$25 50 per ton; it takes 1½ ton to make a ton of blooms, and takes 225 bushels coal, at 4 cents per bushel, to make a ton blooms.
11. No foreign blooms brought here.
12. 60 men, average per month, about \$20.
13. About 10 to 12 hours; it will average 60 hands the year all through.
14. From \$14 to \$16 in this section of country.
15. 40 horses, exclusive of those employed to haul blooms to market.
16. Sent to the Pittsburgh market; distance 118 miles.
17. Foreign blooms do not come to the Pittsburgh market.
18. In Pittsburgh and the western country.
19. None from here.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. It is manufactured at our own rolling mill in Pittsburgh, and there sold.                                                                                                                          |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                 | 21. It has increased owing to the advance in price of horse-feed, labor, and the difficulty of getting timber, and the great distance to haul coal.                                                    |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. For four years, ending April, 1832; average price at the works about \$63.                                                                                                                         |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. Forges alone would sink money by making blooms, to sell them at less than \$60 per ton.                                                                                                            |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. Dont know any thing about levying and collecting duties.                                                                                                                                           |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. About 5 per cent. on the capital, real and personal. \$55,000 employed.                                                                                                                            |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. 2,000 bushels wheat; 5,000 bushels rye and corn; 400 bushels potatoes; 8,000 lbs. beef; 16,000 lbs. bacon; besides cheese, flannels, linens, &c., &c.                                              |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                       | 28. Dont know.                                                                                                                                                                                         |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                        | 29. Unconnected with a furnace and rolling mill, we would stop.                                                                                                                                        |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. In that case we would have no capital, for, if the works were stopped, the personal property could not be sold for any thing, and the real estate consists of lands valuable only for coal timber. |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to twelve and a half per cent.?                                                                                                                                                                | 31. Yes; if we could sell at any price our property.                                                                                                                                                   |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                                                                                                | 32. Our iron finds a market down the Ohio river, and there meets foreign iron.                                                                                                                         |
| 33. Amount of capital; and what portion the borrowed capital bears to that which is real?                                                                                                                                                                                                                                                  | 33. Whole capital \$55,000; if they were stopped and put to sale, \$8,000 could not be realized.                                                                                                       |

## DOCUMENT 14.—No. 55—Continued.

| QUESTIONS.                                                                                                                                                                | ANSWERS.                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; and how gradual the reduction should be? | 34. We dont now realize 6 per cent. on the real capital. |

SHORB, STEWART &amp; Co.

## DOCUMENT 14.—No. 56.

*Iron Manufactory, Huntingdon County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Pennsylvania, Huntingdon county, about 16 miles from Huntingdon.                                                         |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. A blast furnace, called Huntingdon Furnace, propelled by water power, 1 tweer.                                           |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. In 1796; a joint stock concern.                                                                                          |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. \$45,000 invested in 15,000 acres of land and 50 or 60 buildings, with water power, &c.                                  |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. The annual amount of expenditure for those objects exceeds \$25,000.                                                     |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory: distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. About 9 per cent. on capital not borrowed.                                                                               |
| 7. Cause of the increase (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                               | 7. The increase or decrease of profit is caused by the rise or fall in the price of bar iron.                               |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Too variable to be estimated.                                                                                            |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. Manufactured, annually, about 1,200 tons pig iron, and a few tons of castings. Pig iron worth from \$22 to \$25 per ton. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. 2,000 loads charcoal worth \$10,000; 3,000 tons ore worth \$5,000. No foreign products used.                            |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. Cannot say.                                                                                                             |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                                                          | 12. About 60 men employed, having about 20 families. Average wages per month about \$22. Women and children seldom employed.                                                       |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                                                           | <i>Note.</i> —That in the estimate of the value of coal and ore, stated in answer No. 10, the labor of making, digging, and hauling is included.                                   |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                                                           | 13. Hands hired by the month, from sunrise to sunset, during the year. Furnace hands by turns, night and day, during the blast. Wood-choppers by the cord; colliers by the load.   |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 14. Wages for common labor, in this section of country, are 25 per cent. lower than those mentioned in answer 12.                                                                  |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                  | 15. About 50 horses employed.                                                                                                                                                      |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                                                                 | 16. The pig iron made here is sold on the bank.                                                                                                                                    |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 17. No foreign competition in this market.                                                                                                                                         |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                                                                   | 18. The pig iron is manufactured into blooms in the vicinity of the furnace, and sent to Pittsburgh, rolled into bar and all other descriptions of iron, and consumed in the west. |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 19. None.                                                                                                                                                                          |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or labor, and at what rate?                                                                                     | 20. Pig iron is sold at a credit of 2 to 4 months, and is also bartered for blooms.                                                                                                |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 21. There has been a small increase of cost, both in materials and in labor. Cannot say at what rate per annum.                                                                    |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 22. From \$22 to \$25.                                                                                                                                                             |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 23. That under the present tariff of duties is scarcely sufficient.                                                                                                                |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 24. Cannot say.                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                            | 25. About 8 per cent. The dividends have been inconsiderable. Most of the income is expended in improvements.                                                                      |

## DOCUMENT 14.—No. 56—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                       | 27. About 2,000 bush. wheat; 7,000 bushels rye, corn, and oats; together with buck-wheat, potatoes, 10,000 lbs. beef, and 20,000 lbs. pork, of the value of 7 to \$9,000. |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                   | 28. Not able to make any estimate.                                                                                                                                        |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent, with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Such a reduction would, we apprehend, reduce our article at least 25 per cent, which would, of course, oblige us to stop.                                             |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                         | 30. A large proportion of our capital is in lands, which are of little value, except for our present manufacturing purposes.                                              |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to twelve and a half per cent.?                                                                                            | 31. We would be without capital. See answer 30.                                                                                                                           |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; and how gradual the reduction should be?                                                                                              | 34. A very slight reduction indeed, as will appear by answer 25.                                                                                                          |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                                                                            | 37. If full confidence were felt in the permanency of protective duties, the production would exceed the consumption.                                                     |
| 38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?                                                                                                                                       | 38. Cannot say.                                                                                                                                                           |
| 40. Average rate of wages?                                                                                                                                                                                                                                             | 40. Wages for common labor about \$16.                                                                                                                                    |

LYON, FOSTER &amp; Co.

## DOCUMENT 14.—No. 57.

*Iron Furnace, Huntingdon County, Pennsylvania.*

| QUESTIONS.                                                                           | ANSWERS.                                                      |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Springfield furnace is in Huntingdon county, Pennsylvania. |
| 2. Kind or description of the manufactory, and whether water, steam, or other power? | 2. Manufacture principally pig mettle; drawn by water power.  |
| 3. When established, and whether a joint stock concern?                              | 3. Established in 1815: a company concern.                    |
| 4. Capital invested in ground and buildings, and water power, and in machinery?      | 4. Original capital invested, \$50,000.                       |



## DOCUMENT 14.—No. 57.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                         | 5. From 18 to 22,000 dollars per year latterly; formerly more.                                                                                                   |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                   | 9. From 10 to 1,900 tons pig mettle.                                                                                                                             |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                       | 12. From 80 to 100 men employed; about 50 of whom have families.                                                                                                 |
| 13. How many hours a day employed, and what portion of the year.                                                                                                                                                                                                        | 13. They labor from sunrise to sunset, with some few exceptions, where it is necessary to be up all night.                                                       |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                         | 15. 35 horses, 6 mules, and 2 yoke of oxen.                                                                                                                      |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                | 18. The mettle is worked into bar iron in our own neighborhood, and then transported to Pittsburgh.                                                              |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                    | 22. In 1815 and 1816 pig mettle sold at 40 dollars per ton; has been greatly reducing in price; for the last three years it has been sold at 24 dollars per ton. |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. We would be compelled to abandon it.                                                                                                                         |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                           | 31. We know of many kind of business that would yield better profits in proportion to the capital employed, at the present rate of duties on foreign iron.       |

SAMUEL BOYER.

## DOCUMENT 14.—No. 58.

*Iron Manufactory, Huntingdon County, West Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.                                                                     |
|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Huntingdon county, Pennsylvania.                                          |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?            | 2. 1 forge, water power, Spruce creek.                                       |
| 3. When established, and whether a joint stock concern?                                         | 3. In the fall of 1826 in company, but now the subscriber's private concern. |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                 | 4. About six thousand dollars; 60 acres of land and 6 houses.                |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 5. About 6,500 dollars.                                                      |

## DOCUMENT 14.—No. 58—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                  | ANSWERS.                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                       | 7. The change in the price of grain and meat; also in carriage to market.                              |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                              | 8. Not prepared to state.                                                                              |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                       | 9. About 160 tons blooms and 20 tons bar iron.                                                         |
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                                                                                                                             | 10. Pig mettle, worth about 25 dollars a furnace bank; 300 tons used a year.                           |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                             | 11. Do not know.                                                                                       |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                           | 12. Average twenty-two men. Children not employed; choppers and colliers included, and their families. |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                            | 13. Mostly all the day, and part of the night.                                                         |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                            | 14. Do not know.                                                                                       |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                             | 15. Fifty horses or other animals equal in power for draught.                                          |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                   | 16. Pittsburgh, 117 miles distance; part by canal.                                                     |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                  | 17. In the east and west it is said they do, to wit, Philadelphia and Ohio State.                      |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                    | 18. In the Western and Eastern States.                                                                 |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                    | 19. None, that is, to my knowledge.                                                                    |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                  | 20. By the manufacturer, at a credit from 120 to 90 days, payable in money.                            |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. Both a little.                                                                                     |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                        | 22. From eighty-five to eighty dollars at market.                                                      |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                  | 23. Do not know.                                                                                       |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                            | 24. Cannot say.                                                                                        |

## DOCUMENT 14.—No. 59.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 25. What has been the rate of your profits annually for the last three years; and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and, therefore, not divided out annually? | 25. Cannot state, as I am lately engaged in the business.                                  |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                       | 28. Do not know.                                                                           |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29. Must abandon the business from a full sense of necessity; otherwise sink.              |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. I would be left without much.                                                          |
| 32. Are not the manufactures of salt and iron, remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                                                                                               | 32. Situate 28 miles from Bellefonte, 16 from Huntingdon, and 117 from Pittsburgh.         |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent.; and how gradual the reduction should be?                                                                                                                                                                | 34. Not any in my mind.                                                                    |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                                                                                                                                                | 37. It is believed much more might be made than what is.                                   |
| 38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?                                                                                                                                                                                                           | 38. Do not know.                                                                           |
| 39. Average profit of money or capital in the United States?                                                                                                                                                                                                                                                                               | 39. Do not know.                                                                           |
| 40. Average rate of wages?                                                                                                                                                                                                                                                                                                                 | 40. 18 dollars per month for common business, find themselves; other work by piece or ton. |

N. B.—I would answer the questions more fully, were it not that I feel assured that they will be answered by older men in the business.

C. WIGTON.

## DOCUMENT 14.—No. 59.

*Etna Iron Works, Huntingdon County, West Pennsylvania.*

| QUESTIONS.                                                | ANSWERS.                                                                        |
|-----------------------------------------------------------|---------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated? | 1. Pennsylvania, Huntingdon county, 14 miles from Huntingdon, on Juniata river. |

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Two forges, in the whole five fires, one blast furnace, one ore washing machine, one grist mill, and two saw mills; all water power, styled <i>Ætna</i> works.                                                                                                      |
| 3. When established; and whether a joint-stock concern?                                                                                                                                                                                                                                              | 3. Commenced making iron in 1808; an individual concern.                                                                                                                                                                                                               |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. \$70,000, embracing about 10,000 acres land and improvements, 40 to 50 houses.                                                                                                                                                                                      |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages.                                                                                                                                                                                                     | 5. Annual expense is about \$35,000 for wages, feed, &c., besides the implements, wagons, teams, &c. not embraced in the amount.                                                                                                                                       |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. None borrowed; the profit less than six per cent. since 1828.                                                                                                                                                                                                       |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. The decrease is owing to rise of pig metal, increase of wages, and low price of iron, &c.                                                                                                                                                                           |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. From 20 to 50 per cent.                                                                                                                                                                                                                                             |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. About 600 tons pig metal annually, 50 tons castings, stoves, &c.; about 500 tons blooms annually, which are rolled into all kinds of iron, at my rolling mill, Pittsburgh. The above iron is of a very superior quality, and not surpassed by any in the U. States. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. No foreign products consumed.                                                                                                                                                                                                                                      |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. No similar articles brought here; and am not certain as to the prices.                                                                                                                                                                                             |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. 150 hands employed; about 40 families, average rate of wages \$22, exclusive of foremen and founders, who work by the ton; \$7 for foremen.                                                                                                                        |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                     | 13. Hands by the month from sunrise to sunset, the whole year; foremen by turns during day and night; furnace hands same; wood choppers per cord 40 cents.                                                                                                             |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 14. Wages are not as high at any other business, except at some public work.                                                                                                                                                                                           |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. Fifty horses for teams, farming, &c.                                                                                                                                                                                                                               |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. No market here; but are sent to my rolling mill at Pittsburgh, which is 110 miles distant from this place, and transported thence by land and water carriage at various prices.                                                                                    |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                           | 17. There are no foreign blooms brought to Pittsburgh.                                                                                                                                                                                                                 |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. Pittsburgh and western country.                                                                                                                                                                                                                                    |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                             | 19. None from this place.                                                                                                                                                                                                                                              |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20. Whether the manufacture is sold by the manufacturer for cash; and if on credit, at what credit; if bartered, for what?                                                                                                                                                                                                                 | 20. Not sold for cash here, and not sold until manufactured at my rolling mill, Pittsburgh, in different kinds of iron to suit the market.                                                         |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                | 21. It increases yearly, owing to the increased wages, high price of grain, difficulty in raising ore and coal, and the great distance to haul from off the rough mountains.                       |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. The average price for blooms is about \$63 per ton, and pig metal \$25.                                                                                                                        |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. Forges would sink money to sell blooms for less than \$60 per ton.                                                                                                                             |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. Not acquainted about levying and collecting duties.                                                                                                                                            |
| 25. What has been the rate of your profits, annually, for the last three years; and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. The rate per cent. on the capital, real, moveable, and personal, invested, \$85,000, annually, yielding four per cent for the last three years; not so much retained, except for improvements. |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. No raw materials purchased.                                                                                                                                                                    |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. 3,000 bushels wheat, 8,000 bushels rye and corn, 1,000 bushels potatoes, 10,000 lbs. beef, 20,000 lbs. bacon, &c.                                                                              |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                       | 28. I cannot tell.                                                                                                                                                                                 |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29. I would quit the iron business should the fall of iron correspond with the reduction of 12½ per cent.                                                                                          |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. My capital consists in lands, which I could not sell, unless making a great sacrifice.                                                                                                         |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                              | 31. Yes; if I could sell my property without a sacrifice.                                                                                                                                          |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                                                                                                | 32. The circle extends to the nearest cheap communication; my market is no nearer.                                                                                                                 |

## DOCUMENT 14.—No. 59—Continued.

| QUESTIONS.                                                                                                                                                                                                           | ANSWERS.                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                         | 33. Entire amount of capital \$85,000; none borrowed. If business is ruined it is not worth \$20,000. |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent.; and how gradual the reduction should be?                                          | 34. It requires no reduction, as the works do not yield six per cent. on the capital invested.        |
| 35. If the minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum? | 35. I cannot say.                                                                                     |

H. S. SPANG.

## DOCUMENT 14.—No. 60.

*Iron Furnace, Huntingdon County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Huntingdon, Pennsylvania.                                                                     |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Blast furnace; water power.                                                                   |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. In 1831.                                                                                      |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Ten thousand dollars.                                                                         |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                                                     | 5. Just beginning.                                                                               |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. Just beginning.                                                                               |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. It may arise from local causes, say the cost of raw materials, price of provision, labor, &c. |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Uncertain, but not great on any.                                                              |
| 9. Amount of articles annually manufactured, since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                               | 9. Expect to make 400 tons pig iron and castings; say 350 pig iron and 50 castings.              |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. Value of raw material about \$3,000, domestic.                                               |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. Cannot say.                                                                                  |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>12. Number of men, women, and children employed, and average wages of each class?</p> <p>13. How many hours a day employed; and what portion of the year?</p> <p>14. Rate of wages of similar classes otherwise employed in the same State and country, in other States, and in foreign countries?</p> <p>15. Number of horses or other animals employed?</p> <p>16. Whether the manufactures find a market at the manufactory? if not, how far they are sent to a market?</p> <p>17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?</p> <p>18. Where are the manufactures consumed?</p> <p>19. Whether any of the manufactures are exported to foreign countries; and if so, where?</p> <p>20. Whether the manufacture is sold by the manufacturer for cash; and if on credit, at what credit; if bartered, for what?</p> <p>21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?</p> <p>22. The prices at which the manufacture has been sold by the manufacturer since the establishment?</p> <p>23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?</p> <p>24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?</p> <p>25. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?</p> <p>27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?</p> <p>28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?</p> <p>29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?</p> <p>30. If it would cause you to abandon your business, in what way would you employ your capital?</p> | <p>12. 30 men, average wages \$17 per month, and find themselves.</p> <p>13. 12 hours, employed 10 months.</p> <p>14. Cannot say with any certainty.</p> <p>15. Ten horses and four oxen.</p> <p>16. Perhaps a home market; if not 330 miles to sea port, by canal.</p> <p>17. We expect to find heavy competition in the sea port, but none at home.</p> <p>18. In the United States.</p> <p>19. None exported.</p> <p>20. Various ways, bartered for provisions, bar iron, &amp;c.</p> <p>21. Unable to say.</p> <p>22. Now offered \$27 per ton.</p> <p>23. We expect to find it now a living business by industry and care.</p> <p>24. As to pig iron, we think there is no change necessary.</p> <p>25. We are unable to say.</p> <p>27. Whole amount of domestic productions will be about eight to ten thousand.</p> <p>28. Do not know, but it is very large.</p> <p>29. It would cause us to abandon our business (and our country.)</p> <p>30. We hope we have not got to learn that.</p> |

DOCUMENT 14.—No. 60—Continued.

| QUESTIONS.                                                                                                                                                                                                       | ANSWERS.                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                    | 31. We do not know of any; we could not grow cotton on our mountains, and our country has already a large surplus of bread stuffs, without a foreign market. |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                     | 33. Perhaps we must employ \$8,000, four to six to borrow.                                                                                                   |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent.; and how gradual the reduction should be?                                      | 34. It is certain we must get the business to greater perfection before it will bear any reductions and yield a compensation.                                |
| 35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum? | 35. We certainly need all the present rate of duty affords.                                                                                                  |
| 36. What would be the operation of this change upon the frauds at present supposed to practised?                                                                                                                 | 36. We apprehend no fraud in the article of pig iron.                                                                                                        |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                      | 37. The production cannot be equal to the consumption; when that time arrives, mechanical skill, long experience, and home competition will regulate it.     |
| 38. Extent of individual or household manufacture in the United States, and how much it has increased since the tariff of 1824?                                                                                  | 38. The extent is very great: it has, perhaps, doubled itself since 1824.                                                                                    |
| 39. Average profit of money or capital in the United States?                                                                                                                                                     | 39. From three to six per cent.                                                                                                                              |
| 40. Average rate of wages?                                                                                                                                                                                       | Various, from \$10 to \$20, and found in boarding.                                                                                                           |

ROCKHILL FURNACE, April 23, 1832.

DIVEN & MORRISON, Owners.

This statement is taken hastily, but, from the best information I have of the business generally, consider it tolerably correct. We believe the present system of duties sufficient and barely so; we will know better in another year.

THOMAS N. DIVEN.

DOCUMENT 14.—No. 61—[ No. 1. ]

*Edward Bell's Mary Ann Forge, Huntingdon County, West Pennsylvania.*

| QUESTIONS.                                                                           | ANSWERS.                                                                   |
|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Antis township, Huntingdon county, on the Little Juniata river.         |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. A three fired forge; one hammer; water power, 20 feet fall.             |
| 3. When established; and whether a joint stock concern?                              | 3. Started in November, 1830. Individual concern.                          |
| 4. Capital invested in ground and buildings, and water power, and in machinery?      | 4. About \$13,200. About 2,000 acres of land belongs to the establishment. |



| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. \$3,150 in pig iron, wood, cut grain, and other provisions.                                                                                                        |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. Profit not known, but not 3 per cent.; no capital borrowed; works not fairly under way yet, owing to scarcity of hands.                                            |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. Rise in the price of labor, and fall in the price of iron, reduces the profit, and vice versa.                                                                     |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Very uncertain.                                                                                                                                                    |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value, of each kind?                                                                                                                                                               | 9. Since commenced 142 tons blooms, worth \$86 at forge, best quality of iron; 25 tons bar iron, worth about \$90 per ton, of superior quality.                       |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. We ought to use 300 tons pig iron, worth about \$8,400. No foreign article used.                                                                                  |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. Do not know.                                                                                                                                                      |
| 12. Number of men, women, and children, employed, and average wages of each class?                                                                                                                                                                                                                   | 12. About 25 men at \$23 per month; about ten families, average five persons to each family.                                                                          |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                     | 13. Very uncertain; about 11 months in the year.                                                                                                                      |
| 14. Rate of wages of similar classes otherwise employed, in the same State and county, in other States, and in foreign countries?                                                                                                                                                                    | 14. \$18 per month; in other States and counties, not known.                                                                                                          |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. 14 horses and two yoke of cattle.                                                                                                                                 |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. No home market; sent 106 miles to Pittsburgh, Pennsylvania.                                                                                                       |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                           | 17. Believe no foreign iron comes to that market.                                                                                                                     |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. In the States of Ohio; Kentucky, Indiana, &c.                                                                                                                     |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                                                            | 19. Know of none.                                                                                                                                                     |
| 20. Whether the manufacture is sold by the manufacturer for cash? and, if on credit, at what credit? if bartered, for what?                                                                                                                                                                          | 20. Generally sold at a credit of from sixty days to six months, and sometimes one year; sometimes bacon, tobacco, muslin, and sugar, are taken in exchange for iron. |
| 21. Whether the cost of the manufactured article (to the manufacturer,) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                         | 21. The cost of the manufactured article, to the manufacturer, has increased for the last three years, owing to the scarcity of hands.                                |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                 | 22. From 85 to \$95 per ton for blooms, at six months; and bar iron at 100 to \$120 per ton, subject to the same credit.                                              |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                  | ANSWERS.                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                  | 23. Do not know.                                                                                                                                                                                                                  |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                            | 24. Do not know.                                                                                                                                                                                                                  |
| 25. What has been the rate of your profits, annually, for the last three years? and, if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Do not know; as it is not a joint stock, we have not been able to ascertain what our profits are, if any, as we are not done with our improvements.                                                                           |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                                | Raw material, delivered at the forge, costs about half generally of the price of a ton of blooms in Pittsburgh; manufacturing, about \$12 50 per ton.                                                                             |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                            | 27. About 1,050 bushels of wheat, 1,560 bushels rye, 500 bushels corn and buckwheat, 200 bushels potatoes, 6,000 lbs. bacon, 3,000 lbs. beef, 3,100 lbs. butter, 1,000 dozen eggs and 250 lbs. cheese.                            |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                        | 28. I do not know.                                                                                                                                                                                                                |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                     | 29. I cannot say what I would do. I know nothing about duties, nor what duty is now on iron.                                                                                                                                      |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                              | 30. I expect my capital would be all spent before I would agree to quit.                                                                                                                                                          |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                               | 31. I consider the profits now very small, and what a reduction to 12½ per cent. would reduce them I cannot say. Destroy the iron works, and I know of no business that would be good in this county, as the rest depend on them. |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                                                                                                 | 32. The circle is very small, as foreign salt, and I believe some iron, especially in sheets, come to the adjoining counties east and south of this.                                                                              |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                                                                                                | 33. No borrowed capital.                                                                                                                                                                                                          |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; and how gradual the reduction should be?                                                                                                                                                                   | 34. I do not know.                                                                                                                                                                                                                |
| 35. If minimums should be abolished, and                                                                                                                                                                                                                                                                                                    | 35. Do not know.                                                                                                                                                                                                                  |

## DOCUMENT 14.—No. 61—[No. 1]—Continued.

| QUESTIONS.                                                                                                                                                              | ANSWERS.                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum? |                                              |
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                     | 36. Do not know.                             |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                             | 37. Do not know.                             |
| 40. Average rate of wages?                                                                                                                                              | 40. To common laborers about \$16 per month. |

MARY ANN FORGE, *April 21, 1832.*EDWARD BELL, *Owner.*

## No. 2.

*Dysart & Lloyd's Antis Forge, Huntingdon County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Antis township, Huntingdon county, on the Little Juniata river, below E. Bell's.                                                                                              |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. A three fired forge; one hammer; water power.                                                                                                                                 |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Started in June, 1829; joint stock concern.                                                                                                                                   |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. About \$11,500; about 1,000 acres land belongs to the establishment.                                                                                                          |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. About \$3,600 in pig metal, wood (out,) and grain, and other necessaries.                                                                                                     |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. Profit not exactly known, but not 6 per cent., owing to still making improvements, and accidents of fire and water; part borrowed, which does not more than pay the interest. |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. Rise in the price of labor and grain, and fall in the price of iron, reduces the profit.                                                                                      |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. No other capital employed.                                                                                                                                                    |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. Since commenced, 500 tons blooms, \$66 at forge, best quality of iron; 50 tons bar iron, worth about, at present, \$90 per ton, best quality of iron.                         |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. We ought to use 450 tons pig iron, worth \$10,800 at furnace. No foreign products used.                                                                                      |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. Do not know.                                                                                                                                                                 |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                  | ANSWERS.                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                                                           | 12. 24 men at \$23 per month, averaged with forge-man's wages, \$6 per ton; about ten families, average six persons to each family.                                                                     |
| 13. How many hours a day employed? and what portion of the year?                                                                                                                                                                                                                                                                            | 13. Very uncertain; about 11 months in the year.                                                                                                                                                        |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                                                            | 14. About \$18 per month; in other States and countries not known.                                                                                                                                      |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                             | 15. 14 horses.                                                                                                                                                                                          |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                   | 16. No home market; 110 miles to Pittsburgh, Pennsylvania.                                                                                                                                              |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                                                                  | 17. Believe no foreign iron comes to that market.                                                                                                                                                       |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                    | 18. In the States of Ohio, Kentucky, Indiana, &c.                                                                                                                                                       |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                                                                                                   | 19. Know of none.                                                                                                                                                                                       |
| 20. Whether the manufacture is sold by the manufacturer for cash? and, if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Generally sold at a credit of from sixty days to six months, and sometimes one year; sometimes bacon, tobacco, muslin, and sugar, are taken in exchange for iron.                                   |
| 21. Whether the cost of the manufactured article (to the manufacturer,) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                | 21. The cost of the manufactured article, to the manufacturer, has increased for the last three years owing to the scarcity of hands.                                                                   |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                        | 22. From 85 to \$95 per ton for blooms, at six months; bar iron at 100 to \$120, subject to the same credit.                                                                                            |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                  | 23. Do not know.                                                                                                                                                                                        |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                            | 24. Do not know.                                                                                                                                                                                        |
| 25. What has been the rate of your profits, annually, for the last three years? and, if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Do not know the profits exactly for the last three years; joint stock company; dividends all spent in paying interest and making improvements.                                                      |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                                | 26. Raw material for one ton blooms, delivered at the forge, costs \$50; manufacturing \$12 per ton.                                                                                                    |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                            | 27. About 1,050 bushels wheat, 1,560 bushels rye, 500 bushels of corn and buckwheat, 300 bushels potatoes, 6,000 lbs. bacon, 3,000 lbs. beef, 3,100 lbs. butter, 300 lbs. cheese, and 1,000 dozen eggs. |

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                    | 28. I do not know.                                                                                                                                     |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. I cannot say what I would do. I know nothing or very little about duties.                                                                          |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. Our capital is all invested in the works, or nearly so, and would be worth nothing except farming; and destroy one and you will destroy the other. |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                           | 31. There is not more than a living profit now; and I think a reduction to 12½ per cent. would affect all other business in this county.               |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                             | 32. I have never made much inquiry as to this.                                                                                                         |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                            | 33. Cannot tell exactly.                                                                                                                               |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; and how gradual the reduction should be?                                                                                               | 34. I do not know.                                                                                                                                     |
| 35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum?                                                        | 35. I do not know.                                                                                                                                     |
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                                                                                                     | 36. Do not know.                                                                                                                                       |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                                                                             | 37. Do not know.                                                                                                                                       |
| 39. Average profit of money or capital in the United States?                                                                                                                                                                                                            | 39. Ditto.                                                                                                                                             |
| 40. Average rate of wages?                                                                                                                                                                                                                                              | 40. To common laborers \$16 per month.                                                                                                                 |

ANTIS FOREX, April 24, 1832.

DYSART & LLOYD,  
Per W. P. DYSART.

## DOCUMENT 14.—No. 62.

*Iron Forge, Huntingdon County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Pennsylvania, Huntingdon county.                                                                                                                         |
| 2. Kind or description of the manufactory?                                                                                            | 2. Forge; water power.                                                                                                                                      |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Twenty thousand dollars.                                                                                                                                 |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Eighteen hundred dollars.                                                                                                                                |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                               | 6. The cause of decrease of profit, the competition of domestic manufactures.                                                                               |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. About 250 tons blooms, and 50 tons bar iron per annum; value of the former \$65, and latter \$80 per ton.                                                |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. About 450 tons pig metal; value eleven thousand nine hundred dollars, delivered.                                                                         |
| 10. Number of men, women and children employed, and average wages of each class?                                                      | 10. Thirty-four laborers employed; number of families, eighteen. Average wages of each hand one hundred and eighty-one dollars per annum.                   |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. Blooms and bar iron sent to Pittsburgh market, distance about one hundred and ten miles; carriage per ton \$27½.                                        |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 16. Blooms and bar iron sold at a credit from 3 to 6 months.                                                                                                |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                  | 17. The price of bar iron at one time was \$200; has since decreased to the present price, \$110 per ton, and blooms \$95 per ton, delivered in Pittsburgh. |

ROYER &amp; SCHMUCKER.

## DOCUMENT 14.—No. 63.

*Elizabeth Iron Forge, Huntingdon County, West Pennsylvania.*

| QUESTIONS.                                                                                       | ANSWERS.                                                                    |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                        | 1. Pennsylvania, Huntingdon county, 13 miles from Huntingdon, Spruce Creek. |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?             | 2. One forge, two fires; water power; called Elizabeth Forge.               |
| 3. When established; and whether a joint stock concern?                                          | 3. Built in 1827.                                                           |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                  | 4. \$12,000, with about 500 acres of land; 12 buildings.                    |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages? | 5. 330 tons pig metal; as for w <sup>h</sup> hands, cannot say.             |

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. The profits not exceed 6 per cent.                                                                     |
| 7. Causes of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                             | 7. Owing to the rise of labor, grain, and transportation of iron.                                         |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Too variable to be estimated.                                                                          |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. About 220 tons blooms.                                                                                 |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. Pig iron, worth \$25 50 per ton at forge.                                                             |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. Do not correctly know.                                                                                |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                                                                     | 12. 18 men, average about \$22 per month, and a portion of women and children.                            |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                     | 13. Laborers from sunrise to sunset, forgers by the ton, wood choppers by the cord, colliers by the load. |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 14. From 14 to \$15 in this section of the country.                                                       |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. 12 horses.                                                                                            |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. Sent to Pittsburgh market, distance 115 miles.                                                        |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                           | 17. No foreign competition in this place, but meet one down the Ohio.                                     |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. In the western country.                                                                               |
| 19. Whether any of the manufactures are exported to foreign countries? And if so, where?                                                                                                                                                                                                             | 19. None.                                                                                                 |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                           | 20. Blooms are sold in Pittsburgh on a credit.                                                            |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                          | 21. It varies, but there has been a small increase both in labor and grain.                               |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                 | 22. For 3 years average price of blooms \$62.                                                             |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                           | 23. The present tariff of duties is scarcely sufficient.                                                  |

DOCUMENT 14.—No. 63—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. Could not say.                                                                                   |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Nearly 7 per cent. for the last three years; the greatest part expended in improvements.         |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. Cannot say.                                                                                      |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. 400 bushels wheat, 1,100 bushels rye and corn together, without buckwheat, potatoes, beef, pork. |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                       | 28. Do not know.                                                                                     |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to 12½ per cent, with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29. Stop as soon as business could get closed.                                                       |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. Purchase bank stock.                                                                             |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 1½ per cent.?                                                                                                                                                                               | 31. Yes; would rather undertake to till the ground.                                                  |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                                                                                                | 32. No regular sales nearer than Pittsburgh.                                                         |
| 33. Amount of capital, and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                                                                                               | 33. \$15,000; none borrowed.                                                                         |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent, and how gradual the reduction shall be?                                                                                                                                                                    | 34. It must be carefully attended to give 6 per cent.                                                |
| 38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?                                                                                                                                                                                                           | 38. Increased considerably.                                                                          |

ROBERT MOORE.



## DOCUMENT 14.—No. 64.

*Iron Works, Huntington County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Pennsylvania, Huntington county, 22 miles from Huntington, on the Juniata river.                                                                                                                                    |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. 2 forges, 7 fires, water power, and called Tyrone forges, with a slitting mill and nail factory.                                                                                                                    |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Built at different times from 1806 to 1813. A joint stock concern: the present owners purchased in 1831.                                                                                                            |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. \$60,000, with about 10,000 acres of land; from 45 to 50 buildings, water power; and in joint cost of building and land amounting to better than \$100,000.                                                         |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. We do not correctly know, but corresponding with other works in this country.                                                                                                                                       |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. The profits vary from 3 to 15 per cent.; the last three years about 4½ per cent.                                                                                                                                    |
| 7. Cause of the increase (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                               | 7. Transportation, grain and labor.                                                                                                                                                                                    |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Too variable to be estimated.                                                                                                                                                                                       |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. Do not correctly know; for the last 3 years about 350 tons of blooms and 300 tons bar iron, together with nail and spike work, nails, &c. Best Juniata bloom worth about \$62 per ton, bar iron \$75 at the forges. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing, between foreign products and domestic products?                                                                                                                                                                     | 10. Pig iron at forges worth \$25 per ton; takes 1½ tons for 1 ton of iron, 22½ bushels coal, worth 3½ per bushel.                                                                                                     |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. Do not correctly know.                                                                                                                                                                                             |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. 70 men, (no women and children employed,) average about \$23 per month.                                                                                                                                            |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                     | 13. Hand by the month, from sunrise to sunset; forge men by the ton, wood choppers by the cord; colliers by the load.                                                                                                  |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 14. From 14 to \$16 per month in the country.                                                                                                                                                                          |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. 40 horses and some oxen.                                                                                                                                                                                           |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. Sent nearly all to Pittsburgh, 116 miles.                                                                                                                                                                          |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                            | 17. No foreign competition in this place, but meets our iron down the Ohio.                                                                                                                                            |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. In the western country.                                                                                                                                                                                            |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                             | 19. None.                                                                                                                                                                                                              |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Bar iron is sold at Pittsburgh on a credit, and the bloom we roll in various kinds of iron at our own rolling mill at Pittsburgh. |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                | 21. It varies, but there has been a small increase both in labor and grain.                                                           |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. For three years average price of bloom \$62, bar iron \$75 at the works.                                                          |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. The present tariff of duties is scarcely sufficient.                                                                              |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. Cannot say.                                                                                                                       |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. About 7 per cent. for the last 3 years: nearly all expended in improvements.                                                      |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. The only raw material is pig, what we take from our own furnaces; the balance is paid for labor and grain.                        |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. 2,000 bushels wheat, 6,000 rye and corn, together with oats, buckwheat, and potatoes, beef, pork, &c.                             |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                       | 28. Do not know.                                                                                                                      |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29. Do not know, but would likely carry on until our stock is sunk.                                                                   |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. We would have none to employ, as all our capital would not be worth any thing.                                                    |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                              | 31. Yes, plenty, But of no use to us.                                                                                                 |
| 32. Are not the manufactures of salt and iron, remote from the points of importation, out of foreign competition within a certain circle around them? and what is the extent of that circle?                                                                                                                                               | 32. No, our iron has to go either east or west, where it meets foreign competition: very little used in the neighborhood.             |

## DOCUMENT 14.—No. 64—Continued.

| QUESTIONS.                                                                                                                                                                | ANSWERS.                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 33. Amount of capital, and what proportion the borrowed capital bears to that which is real?                                                                              | 33. \$85,000. No borrowed capital, only what becomes due by yearly payments on the purchase of the works. |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; and how gradual the reduction should be? | 34. Few works now yield 6 per cent. on all capital invested.                                              |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                               | 37. Do not know, but there might be manufactured to any amount wanted.                                    |

LYON, FOSTER &amp; CO.

## DOCUMENT 14.—No. 65.

*Elizabeth Forge, Huntington County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Pennsylvania, Huntington county, 16 miles from Huntington, on Spruce creek.                                                |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. One forge, 2 fires. Water power. Called Elizabeth forge.                                                                   |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Built in 1828. A joint stock concern. Part of the present owners purchased in 1831.                                        |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. \$10,000, with about 500 acres of land, 10 buildings.                                                                      |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. Do not correctly know, as the pigs are all from our own furnace.                                                           |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory: distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. The profits less than 6 per cent.                                                                                          |
| 7. Causes of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                               | 7. Owing to the rise of labor, grain, and the transportation of iron.                                                         |
| 8. Rates of profit on capital otherwise employed in the same State or county?                                                                                                                                                                                                                        | 8. Too variable to be estimated.                                                                                              |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. About 100 tons blooms and 60 tons bar iron. Best Juniata blooms is worth \$62 per ton; bar iron \$75 per ton at the works. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. Pig iron is worth \$25 per ton at the forge.                                                                              |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. Do not correctly know.                                                                                                    |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12. Number of men, women, and children, employed, and average wages of each class?                                                                                                                                                                                                                                                       | 12. 15 men, average about \$22 per ton.                                                                                                                    |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                                                         | 13. Laborers from sunrise to sunset; forgers by ton; wood choppers by the cord; colliers by the load.                                                      |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                                                         | 14. From 14 to \$16 in this section of the country.                                                                                                        |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                          | 15. Twelve horses.                                                                                                                                         |
| 16. Whether the manufacturers find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                               | 16. Sent to Pittsburgh market; distance 120 miles.                                                                                                         |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                                                               | 17. No foreign competition in this place, but meets one down the Ohio.                                                                                     |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                 | 18. In the western country.                                                                                                                                |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                                                                 | 19. None.                                                                                                                                                  |
| 20. Whether the manufacture is sold by the manufacturer for cash; and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                               | 20. Bar iron is sold in Pittsburgh on a credit; blooms are rolled into various kinds of iron in Pittsburgh, at our own rolling mill, and sold on a credit. |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                               | 21. It varies, but there has been a small increase both in labor and grain.                                                                                |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                     | 22. For 3 years average price of bloom \$62, bar iron \$73 at the works.                                                                                   |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                               | 23. The present tariff of duties is scarcely sufficient.                                                                                                   |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                         | 24. Cannot say.                                                                                                                                            |
| 25. What has been the rate of your profits annually for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. About 7 per cent. for the last 3 years nearly all expended in improvements.                                                                            |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                             | 26. The only raw materials pig, is what we take from our own furnaces: the balance is paid for labor and grain.                                            |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                         | 27. 300 bushels wheat, 1,200 bushels rye and corn, together with oats, buckwheat, potatoes, beef, pork, &c.                                                |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                     | 28. Do not know.                                                                                                                                           |

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Do not know, but would likely carry on until our stock was sunk.                                                      |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. We would have none to employ, as our capital would not be worth any thing.                                            |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per centum?                                                                                                          | 31. Yes, plenty, but of no use to us.                                                                                     |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                             | 32. No, our iron has either to go east or west, where it meets foreign competition: very little used in the neighborhood. |
| 33. Amount of capital, and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                            | 33. \$16,000. No borrowed capital, only what becomes due by yearly payments on the purchase of the works.                 |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; and how gradual the reduction should be?                                                                                               | 34. Few works now yield 6 per cent. on all capital invested.                                                              |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                                                                             | 37. Do not know, but there might be manufactured to any amount wanted.                                                    |

LYON, FOSTER &amp; CO.

## DOCUMENT 14.—No. 66.

*Bald Eagle Furnace, Huntingdon County, West Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.                                                                                                |
|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Pennsylvania, Huntingdon county, about 30 miles from Blair's gap, on Bald Eagle creek.               |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?            | 2. One blast furnace, called Bald Eagle Furnace; propelled by water power; one tweer.                   |
| 3. When established, and whether a joint stock concern?                                         | 3. In 1825; commenced making iron in 1826; a joint stock concern; the present owners purchased in 1831. |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                 | 4. \$25,000 invested in 8,000 acres of land, 35 or 40 buildings, machinery, and water power.            |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 5. The annual expenditure amounts to upwards of \$28,000.                                               |

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. About 10 per cent.; no borrowed capital; the reason of being so high a per cent. is, coal is very convenient, as it is a new establishment, and the land bought at low rates. |
| 7. Causes of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                               | 7. Various causes—the immediate demand for labor, prices of grain, and the fluctuation of the price of iron.<br>8. Too variable to be estimated.                                 |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 9. 1,200 tons pig iron and 20 tons of forge castings, considered the best of Juniata pig iron, worth from 22 to \$24 per ton.                                                    |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 10. 3,000 tons ore, worth \$6,000; 2,200 loads charcoal, worth \$8,800; no foreign products used.                                                                                |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 11. Cannot say.                                                                                                                                                                  |
| 11. Cost in the United States of similar articles of manufacture imported abroad, and from what countries?                                                                                                                                                                                           | 12. Average 70 men, 30 families; no women or children employed; average wages \$23 per month.                                                                                    |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 13. Laborers from sunrise to sunset; furnace hands by turns; wood choppers per cord; colliers per load; miners per ton.                                                          |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                     | 14. From 14 to \$16 per month: do not know correctly in other States and foreign countries.                                                                                      |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 15. Average 60 horses.                                                                                                                                                           |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 16. Part manufactured by our own forges, part sold or exchanged on bank for blooms.                                                                                              |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 17. No; we are so far from sea-shore.                                                                                                                                            |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                           | 18. The pig iron is manufactured into blooms and bar iron, and sold in the west.<br>19. None.                                                                                    |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 20. Pig iron is sold on 3 or 4 months' credit, and bartered for blooms and bar iron.                                                                                             |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                                                            | 21. It varies, but there has been a small increase both in labor and grain.                                                                                                      |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, for what credit? if bartered, for what?                                                                                                                                                                          | 22. From 22 to \$24.                                                                                                                                                             |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                          |                                                                                                                                                                                  |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                 |                                                                                                                                                                                  |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. The present tariff is scarcely sufficient.                                                                            |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. Cannot say.                                                                                                           |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. About 3 per cent.; the remainder expended in making improvements.                                                     |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. We consider all our cost, labor, and grain, and the immediate products of the neighborhood.                           |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. About 2,000 bushels wheat, 6,000 bushels rye and corn, together with oats, buckwheat, potatoes, beef, and pork.       |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                       | 28. Do not know.                                                                                                          |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29. Do not know, but likely would carry on until we sunk our capital.                                                     |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. We would have none to employ, for all our capital would not be worth anything.                                        |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                              | 31. Yes, plenty, but no use to us.                                                                                        |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                                                                                                | 32. No; our iron has to go either east or west, where it meets foreign competition; very little used in the neighborhood. |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                                                                                               | 33. \$40,000 real and personal; if the works were stopped, not worth \$15,000.                                            |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; and how gradual the reduction shall be?                                                                                                                                                                   | 34. Few works now yield 6 per cent. on all capital invested.                                                              |
| 35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum?                                                                                                                           | 35. Unacquainted with the subject.                                                                                        |

## DOCUMENT 14.—No. 66—Continued.

| QUESTIONS.                                                                                                                       | ANSWERS.                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                              | 36. Do not know.                                                           |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                      | 37. Do not correctly know, but might be manufactured to any amount wanted. |
| 38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824? | 38. Do not know.                                                           |
| 39. Average profit of money or capital in the United States?                                                                     | 39. Do not know.                                                           |
| 40. Average rate of wages?                                                                                                       | Average about \$16, except iron works.                                     |

LYON, FOSTER &amp; CO.

## DOCUMENT 14.—No. 67.

*Pennsylvania Furnace, Huntingdon County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Pennsylvania, Huntingdon county, 20 miles from Huntingdon, and 20 miles from Bellefonte.                                       |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. A blast furnace, called Pennsylvania Furnace; propelled by water power; one tweek.                                             |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. In 1813; a joint stock concern.                                                                                                |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. \$50,000 invested in 20,000 acres of land, 60 or 70 buildings, with water power, &c. &c.                                       |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. The annual amount of expenditure exceeds \$30,000.                                                                             |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. No borrowed capital.                                                                                                           |
| 7. Causes of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                               | 7. The increase or decrease of profit is caused by the rise or fall in the price of bar iron.                                     |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Too variable to be estimated.                                                                                                  |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. Manufactured annually about 1,450 tons pig iron and 20 tons castings; pig iron worth \$2 to \$25 per ton.                      |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. 2,400 loads coal, worth \$12,000; 3,500 tons ore, worth \$5,600; no foreign products used; value of coal and ore on the bank. |



| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                                                            | 11. Cannot say.                                                                                                                                                                                       |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                                                          | 12. About 70 men employed, having about 25 families; average wages per month about \$22; women and children seldom employed.                                                                          |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                                                           | 13. Hands hired by the month; from sunrise to sunset during the year; furnace hands by turns, night and day during the blast; wood choppers by the cord; colliers by the load.                        |
| 14. Rate of wages of similar classes otherwise employed, in the same State and country, in other States, and in foreign countries?                                                                                                                                                                                                         | 14. In this section of the country from 14 to \$16 per month, (common;) as for other States and foreign countries not prepared to say.                                                                |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. About 60 horses employed.                                                                                                                                                                         |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to market?                                                                                                                                                                                                                                    | 16. Part manufactured at our own forge, and part sold or exchanged for blooms.                                                                                                                        |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                                                                 | 17. No foreign competition in this market.                                                                                                                                                            |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. The pig iron is manufactured into blooms in the immediate neighborhood of the furnace, and sent to Pittsburgh, rolled into bar iron and all other descriptions of iron, and consumed in the west. |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                                                                   | 19. None.                                                                                                                                                                                             |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Pig iron is sold on a credit from two to four months; also bartered for blooms.                                                                                                                   |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                 | 21. There has been a small increase of cost both in material and in labor; cannot say at what per annum.                                                                                              |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. From 22 to 25 dollars.                                                                                                                                                                            |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition, in the home market with similar articles imported?                                                                                                                                                                                                | 23. That under the present tariff of duties is scarcely sufficient.                                                                                                                                   |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. Do not know.                                                                                                                                                                                      |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. The dividends have been inconsiderable: most of the income is expended in improvements.                                                                                                           |

## DOCUMENT 14.—No. 67—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                         | 27. About 2,500 bushels wheat, 7,500 do. rye and corn, together with oats, buckwheat, potatoes, beef, pork, &c., to the value of 8 or \$10,000.               |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                     | 28. Not prepared to give an estimate.                                                                                                                         |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Such a reduction would, we apprehend, reduce our article at least 25 per cent., and, of course, we would have to stop when our capital becomes exhausted. |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                           | 30. A large proportion of our capital is in lands, which are of little value except for our present manufacturing purposes.                                   |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                            | 31. We would be without capital.                                                                                                                              |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; and how gradual the reduction shall be?                                                                                                 | 34. A very slim reduction.                                                                                                                                    |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                                                                              | 37. The entire demand would be supplied if full confidence were felt in the permanency of protection.                                                         |
| 38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?                                                                                                                                         | 38. Do not know.                                                                                                                                              |
| 40. Average rate of wages?                                                                                                                                                                                                                                               | 40. Wages for common laborers about 16 dollars.                                                                                                               |

SHORB, STEWART &amp; CO.

## DOCUMENT 14.—No. 68.

*Air Foundry, Indiana County, West Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.                                                                      |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Blairsville, Indiana county, Pennsylvania.                                 |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?            | 2. Air foundry, iron.                                                         |
| 3. When established; and whether a joint stock concern?                                         | 3. In the fall of 1831.                                                       |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                 | 4. Three thousand dollars.                                                    |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 5. Cost of metal and coal per day, \$30 75. Amount of labor per day, \$14 75. |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed?</p> <p>7. Cause of the increase, (or decrease, as the case may be,) of profit?</p> <p>8. Rates of profit on capital otherwise employed in the same State and county?</p> <p>9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?</p> <p>10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?</p> <p>11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?</p> <p>12. Number of men, women, and children employed, and average wages of each class?</p> <p>13. How many hours a day employed; and what portion of the year?</p> <p>14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?</p> <p>15. Number of horses or other animals employed?</p> <p>16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?</p> <p>17. Whether foreign articles of the like kinds enter into competition with them at such places of sale, and to what extent?</p> <p>18. Where are the manufactures consumed?</p> <p>20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?</p> <p>21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased, and how much in each year?</p> <p>22. The prices at which the manufactures have been sold by the manufacturer since the establishment?</p> <p>23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?</p> <p>24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?</p> <p>26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of the capital?</p> | <p>6. About 15 per cent.; no capital borrowed.</p> <p>7. Home and foreign competition, rise and fall of labor and provisions.</p> <p>8. From ten to twenty per cent.</p> <p>9. At the rate of 260 tons per annum; various kind of castings; price from \$50 to \$70 per ton.</p> <p>10. 300 tons metal; 9,000 bushels mineral coal; value \$9,225 per annum.</p> <p>11. Castings for railroads have been imported at \$40 or 45 per ton from England.</p> <p>12. 12 men, averaging \$1 25 per day each.</p> <p>13. All the year, and about 12 hours in the day.</p> <p>14. In this country common laborers receive on the public works, 87½ cents per day; on farms from 60 to 75 cents per day.</p> <p>15. 1 horse.</p> <p>16. At home, east along the canal, and west also.</p> <p>17. Railroad iron imported.</p> <p>18. In this and the neighboring counties.</p> <p>20. Sold in part for cash; part credited from three to nine months, and bartered for produce.</p> <p>21. Has continued regular since erected.</p> <p>22. See answer to query 9.</p> <p>23. Not less than the present duty.</p> <p>24. None that we know of.</p> <p>26. About two-thirds; one-third labor.</p> |

## DOCUMENT 14.—No. 68—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                               | ANSWERS.                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                         | 27. The provisions used by the men and their families.                |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                     | 28. Have not correct information on this point.                       |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. We think this would render our business unproductive.             |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                           | 30. If this would be the case, our capital would be principally sunk. |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to twelve and a half per cent?                                                                                               | 31. Yes, "we could dig."                                              |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                              | 32. No.                                                               |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent.; and how gradual the reduction should be?                                                                                              | 34. No reduction.                                                     |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                                                                              | 37. Do not know, except from reports in public documents.             |

JONES &amp; EUWER.

## DOCUMENT 14.—No. 69.

*Mr. Isaac McKinney's Forge, Lycoming County, West Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.                                   |
|-------------------------------------------------------------------------------------------------|--------------------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. State of Pennsylvania, Lycoming county. |
| 2. Kind or description of the manufactory?                                                      | 2. Forge, 4 fires, and 2 hammers.          |
| 3. Capital invested in ground and buildings?                                                    | 3. Fifteen thousand dollars.               |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 4. Eighteen thousand dollars annually.     |

## DOCUMENT 14—No. 69—Continued.

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5. Annual rates of profit on the capital invested?                                                                                    | 5. About 8 per cent.                                                                                                                                               |
| 6. Cause of the increase or decrease, as the case may be, of profit?                                                                  | 6. Decrease by the importation of foreign iron; increase by rolling mills established in this county.                                                              |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. 225 tons bar iron at \$75 per ton, at market; 75 tons bloom iron at \$60, at works, per ton.                                                                    |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. 3,000 cords wood at 40 cents per cord; 1,500 bushels wheat at \$1 00; and 2,000 bushels rye and corn at 60 cents—domestic products.                             |
| 9. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                        | 9. Bar iron imported from Europe; \$90 in this county, \$60 in Philadelphia.                                                                                       |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. 30 men at \$25 per month; 20 women at \$6 per month.                                                                                                           |
| 11. How many hours a day employed, and what portion of the year?                                                                      | 11. 12 hours per day, all the year.                                                                                                                                |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. One half sold at the works, the other half sent about 200 miles to market.                                                                                     |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?            | 13. To a small extent at the works, but to a great extent at market.                                                                                               |
| 14. Where are the manufactures consumed?                                                                                              | 14. That sold at the works is consumed in the county and southwest part of New York; and the part sent to market is consumed in Philadelphia and Baltimore cities. |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 15. Not exported.                                                                                                                                                  |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 16. Sold for cash at six months' credit.                                                                                                                           |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                  | 17. \$75 per ton for bar iron at market, and \$90 at works; blooms \$60 per ton in market.                                                                         |
| 19. What has been the rate of your profits, annually, for the last three years?                                                       | 19. About 8 per cent. per annum.                                                                                                                                   |
| 20. Amount of capital?                                                                                                                | 20. Twenty-five thousand dollars.                                                                                                                                  |
| 21. Average rate of wages.                                                                                                            | 21. Men \$25 per month.                                                                                                                                            |

## DOCUMENT 14.—No. 70.

Messrs. E. H. Russel &amp; Co.'s Forge, Lycoming County, West Pennsylvania.

| QUESTIONS.                                                | ANSWERS.                                   |
|-----------------------------------------------------------|--------------------------------------------|
| 1. State and county in which the manufactory is situated? | 1. State of Pennsylvania, Lycoming county. |

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Forges, 3 fires; 2 hammers; water power.                                                                                                         |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Joint stock.                                                                                                                                     |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. 12,000 dollars.                                                                                                                                  |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. 3,000 dollars.                                                                                                                                   |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. Seven per cent.                                                                                                                                  |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. 130 tons bar iron, best quality, average value 90 dollars per ton. 50 tons blooms, best quality, average value \$60 per ton.                     |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. 270 tons pig iron at \$31½ per ton; 1,500 cords wood at 50 cents per cord.                                                                      |
| 12. Number of men, women, and children employed; and average wages of each class?                                                                                                                                                                                                                    | 12. 18 men at \$27 per month; 4 boys at \$4 per month.                                                                                              |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                     | 13. 12 hours per day, 11 months in the year.                                                                                                        |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. 10 horses and 4 oxen.                                                                                                                           |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. Market for one half of our bar iron at home, the other half and blooms sent 200 miles.                                                          |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale? and to what extent?                                                                                                                                                                           | 17. Very little at home, but to a considerable extent in market.                                                                                    |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                           | 20. Full half bar iron and whole of blooms sold for cash at 6 months' credit; the rest bartered for salt, pig iron, pork, grain, fish, and plaster. |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                           | 21. Increase in materials and in labor.                                                                                                             |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                 | 22. From \$75 to \$120 per ton.                                                                                                                     |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                           | 23. Present duties.                                                                                                                                 |

## DOCUMENT 14.—No. 70—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. No dividends have been made.                                                                                                                       |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. \$75 per ton; pig iron, coal, labor, and profits, in cash.                                                                                         |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. 600 bushels wheat; 1,000 bushels rye; 500 bushels corn; 300 bushels oats; 100 bushels potatoes; 100 bushels buckwheat, 4 tons pork, &c.; domestic. |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29. Must abandon the business.                                                                                                                         |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. The greater part of the capital would be lost.                                                                                                     |

## DOCUMENT 14.—No. 71.

*Iron Forge, Lycoming County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Pennsylvania, Lycoming county.                                                                                                                        |
| 2. Kind or description of the manufactory?                                                                                            | 2. Forge, 4 fires, and 2 hammers.                                                                                                                                 |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Twenty-five thousand dollars.                                                                                                                                  |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Twenty thousand dollars.                                                                                                                                       |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Seven per cent.                                                                                                                                                |
| 6. Cause of the increase (or decrease, as the case may be) of profit?                                                                 | 6. Decrease of profit arises from the increased quantity of foreign iron forced on our market, and increase from rolling mills being established in this country. |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. 200 tons bar iron, at \$75 per ton at city, 100 tons bloom, at \$60 at works, per ton.                                                                         |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. 3,000 cords wood, at 40 cents; 550 tons pig iron, at \$29; 1,500 bushels wheat, at \$1; 2,000 bushels rye and corn, at 60 cents; all domestic products.        |

## DOCUMENT 14.—No. 71—Continued.

| QUESTIONS.                                                                                                                   | ANSWERS.                                                                   |
|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 9. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?               | 9. Bar iron from different parts of Europe at \$60 per ton.                |
| 10. Number of men, women, and children employed, and average wages of each class?                                            | 10. 35 men, at \$25 per month; 20 horses.                                  |
| 11. How many hours a day employed; and what portion of the year?                                                             | 11. 12 hours per day all the year.                                         |
| 12. Whether the manufactures find a market at the manufactory; if not, how far they are sent to a market?                    | 12. Sent to Philadelphia and Baltimore. About 200 miles.                   |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?   | 13. Foreign iron enters into competition to considerable extent.           |
| 14. Where are the manufactures consumed?                                                                                     | 14. Both consumed in the neighborhood of Baltimore and Philadelphia.       |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                    | 15. None exported.                                                         |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on a credit, at what credit? if bartered, for what? | 16. Sold for cash at six months' credit.                                   |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                         | 17. Bar iron \$75, after deducting freight to market; bloom \$60 at works. |
| 19. What has been the rate of your profits annually for the last three years?                                                | 19. About 6 per cent per annum.                                            |
| 20. Amount of capital?                                                                                                       | 20. Thirty thousand dollars.                                               |
| 21. Average rate of wages?                                                                                                   | 21. Twenty-five dollars per month.                                         |

KIRK, KELTON, &amp; Co.

## DOCUMENT 14.—No. 72.

*Iron Forge, Lycoming County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Pennsylvania, Lycoming county.                                                                                                                         |
| 2. Kind or description of the manufactory?                                                                                            | 2. Forge, 4 fires, and 2 hammers.                                                                                                                                  |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Fifteen thousand dollars.                                                                                                                                       |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Eighteen thousand dollars.                                                                                                                                      |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Eight per cent.                                                                                                                                                 |
| 6. Cause of the increase (or decrease, as the case may be) of profit?                                                                 | 6. Decrease of profit by importation of foreign iron; rolling mills established would increase.                                                                    |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. 225 tons bar iron, at \$75 per ton; 75 tons bloom iron, at \$60, at forge.                                                                                      |
| 8. Quantity and value of different kinds of raw material used; distinguishing between foreign products and domestic products?         | 8. 3,000 cords wood, at 40 cents; 1,500 bushels wheat, at \$1; 2,000 bushels rye and corn, at 60 cents; 550 tons pig iron, at \$30 per ton: all domestic products. |



## DOCUMENT 14.—No. 72—Continued.

| QUESTIONS.                                                                                                                 | ANSWERS.                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 9. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?             | 9. Bar iron imported from Europe, \$90 per ton in this county.                             |
| 10. Number of men, women, and children employed, and average wages of each class?                                          | 10. 30 men, at \$25 per month; 20 women, at \$6 per month.                                 |
| 11. How many hours a day employed; and what portion of the year?                                                           | 11. 12 hours per day; employed all the year.                                               |
| 12. Whether the manufactures find a market at the manufactory? if not, how far are they sent to market?                    | 12. Half sold at the factory, the other half sent 200 miles to market.                     |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent? | 13. They enter into competition to a large extent in markets, but small at home.           |
| 14. Where are the manufactures consumed?                                                                                   | 14. Baltimore and Philadelphia, southwest part of New York, and in this county.            |
| 15. Whether any of the manufactures are exported to foreign countries; and, if so, where?                                  | 15. Not known whether any are exported or not, but supposed not.                           |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered; for what? | 16. The principal part is sold at 6 months' credit for cash.                               |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                       | 17. Bar iron \$90 at the works, and \$75 at Philadelphia; bloom iron \$65 at the city.     |
| 19. What has been the rate of profits annually for the last three years?                                                   | 19. About eight per cent., arising as much from exchange of goods as from the manufactory. |
| 20. Amount of capital?                                                                                                     | 20. Twenty-five thousand dollars.                                                          |
| 21. Average rate of wages?                                                                                                 | 21. Men twenty-five dollars per month.                                                     |

HEPBURNE &amp; LANGCAKE.

## DOCUMENT 14.—No. 73.

*Manufactory of Bar Iron, Luzerne County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Near the mouth of Nescopeck Creek, Luzerne county, Pennsylvania. |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Manufactory of bar iron from pigs.                               |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Established in 1831, by individual enterprise; water power.      |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Twelve thousand dollars.                                         |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. When in full operation 70 dollars per day.                       |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. The establishment has, as yet, yielded nothing.                  |

## DOCUMENT 14.—No. 73—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                  | ANSWERS.                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                       | 7. The casualties incident to new works have sunk the profits.                                                         |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                       | 9. About 1 ton of bar iron per day; the works in operation but a short time.                                           |
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                                                                                                                             | 10. 50 tons of pigs of the furnaces of Pennsylvania; capacity for 450 tons annually.                                   |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                           | 12. 16 men in forge, say at 1 dollar, and say 16 in coaling, &c., and teaming.                                         |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                            | 13. From 10 to 12.                                                                                                     |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                            | 14. About the same.                                                                                                    |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                             | 15. 8 horses.                                                                                                          |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                   | 16. Home market for about one-third; the residue from 20 to 80 miles.                                                  |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                  | 17. They do.                                                                                                           |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                    | 18. In the northern counties of Pennsylvania and southern New York.                                                    |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                    | 19. None from this.                                                                                                    |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                  | 20. Ninety days, and sometimes bartered for grain, &c.                                                                 |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased, and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. Not informed.                                                                                                      |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                        | 22. 85 and 90 per ton.                                                                                                 |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                  | 23. Not able to state precisely, but suppose an increase from the present rate.                                        |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                            | 24. Do not know.                                                                                                       |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                | 26. One-half raw material; two-fifths labor; residue, profits of capital in the shape of interest on capital invested. |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                            | 27. Agricultural productions, \$235 per month; domestic, say \$12,000 per annum.                                       |
| 28. What quantity or amount of manufactures, such as you make, are produced in the U. States, and what amount in your own State?                                                                                                                            | 28. Not informed.                                                                                                      |

## DOCUMENT 14.—No. 73—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Must abandon.                                                                                                       |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. The capital would be lost absolutely.                                                                               |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to twelve and a half per cent.?                                                                                             | 31. Many others if we had our capital again in money.                                                                   |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                             | 32. The iron of this forge is not out of foreign competition, except in its immediate neighborhood; say within 3 miles. |
| 33. Amount of capital, and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                            | 33. 14,000 dollars; real 10,000 dollars; borrowed 4,000 dollars.                                                        |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent., and how gradual the reduction should be?                                                                                             | 34. Increase the duties 12½ per cent., and we can then make 6½ to 7 per cent.                                           |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                                                                             | 37. In Luzerne county, domestic 50 per cent. to the whole consumption; remainder foreign manufactures.                  |
| 39. Average profit of money or capital in the United States?                                                                                                                                                                                                            | 39. About 5½ per cent.                                                                                                  |

NESCOECK FORGE, *April 21, 1832.*

J. A. GORDON, *Agent.*

## DOCUMENT 14.—No. 74.

*Iron Foundry, Luzerne County, West Pennsylvania.*

| QUESTIONS.                                                                                       | ANSWERS.                                               |
|--------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                        | 1. Pennsylvania, Luzerne county.                       |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?             | 2. Foundry; water power; situated on Huntingdon creek. |
| 3. When established, and whether a joint stock concern?                                          | 3. Established 1830; not joint.                        |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                  | 4. About eight hundred dollars.                        |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages? | 5. About seven hundred dollars.                        |

## DOCUMENT 14.—No. 74—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. About seven per cent.                                                                                     |
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                                | 7. Not experienced either decrease or increase.                                                              |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. From six to twenty per cent.                                                                              |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. About ten tons per annum; ploughs, millgearing, &c.; ploughs at about \$6 50; mill-gearing \$100 per ton. |
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. About 10 tons of pigs at \$37 50 per ton; 50 dollars' worth of coal.                                     |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. Two men at about 25 dollars per month.                                                                   |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                     | 13. About ten hours, and 9 months in the year.                                                               |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 14. From ten to thirteen dollars per month.                                                                  |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. Two horses.                                                                                              |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. At the factory, or in the neighborhood.                                                                  |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                           | 20. Sold generally at six months' credit.                                                                    |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                           | 21. Not experienced any change.                                                                              |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                 | 22. A depreciation of about one-sixth.                                                                       |

S. B. LACOCK.

## DOCUMENT 14.—No. 75.

*Iron Furnace, Mifflin County, West Pennsylvania.*

| QUESTIONS.                                                | ANSWERS.                         |
|-----------------------------------------------------------|----------------------------------|
| 1. State and county in which the manufactory is situated? | 1. Mifflin county, Pennsylvania. |

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2. Kind of description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Patent blast furnace; water power; making castings and pig iron.                                                                                                                  |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. First built in 1804, and in operation to 1816; then abandoned till rebuilt in 1831, by D. N. Hulings, the present owner.                                                          |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Without stock; \$25,000, lands, buildings, and machinery.                                                                                                                         |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. Say from 20 to 25,000 to \$30,000, in proportion to the time she is in blast.                                                                                                     |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. Annual rate would be presumed at 8 per cent.; no part of the capital borrowed.                                                                                                    |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. The weather favorable for wood chopping, coaling, &c.; the last two winters have been unfavorable; local situation and careful management, or the contrary, cause profit or loss. |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. This depends on the manner invested; the farming capital don't give 3 per cent.                                                                                                   |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. Will amount to 35 to \$45,000; castings, a variety; pigs for foundries and for bar iron.                                                                                          |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. \$10,000 of raw materials; goods used principally domestic.                                                                                                                      |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. Cost of similar imported articles would be much greater; carriage and freight added.                                                                                             |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                                                                     | 12. I employ about from 60 to 80 men and boys; few women; 10 to \$12 when found, from 18 to \$21 per month, finding themselves.                                                      |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                     | 13. 12 hours per day, and 11 months in the year.                                                                                                                                     |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 14. Farmers, &c., give about \$16, including board; mechanics from 16 to \$23 per month.                                                                                             |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. 25 to 35 horses constantly in our employ.                                                                                                                                        |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. Part sold at and near home; balance sent from 75 to 180 miles.                                                                                                                   |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                           | 17. No competition in castings and pigs, except in the seaports, and to a great extent for machinery.                                                                                |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. Castings in the vicinity, pigs in the foundries and forges.                                                                                                                      |
| 19. Whether any of the manufactures are exported to foreign countries; and if so, where?                                                                                                                                                                                                             | 19. None exported.                                                                                                                                                                   |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                           | 20. No sales for less than 60 days, usual credit 4 and 6 months; bartered for bar iron.                                                                                              |

## QUESTIONS.

21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased, and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?

22. The prices at which the manufactures have been sold by the manufacturer since the establishment?

23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?

24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?

25. What has been the rate of your profits annually for the last three years; and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually?

26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?

27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?

28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?

29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent, with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?

30. If it would cause you to abandon your business, in what way would you employ your capital?

31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?

32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?

33. Amount of capital; and what proportion the borrowed capital bears to that which is real?

## ANSWERS.

21. Cost has increased two to four per cent. per annum: increase owing to the price of labor and procuring provisions, &c.

22. Pigs are sold at \$25 to \$27 50 per ton, castings 70 to \$80 per ton.

23. The rate of duties now laid are scarce sufficient to keep up or to enter into competition in the home market.

24. The present mode, so far as we know, is sufficient.

25. But 3 months in blast; much capital has been expended, no profit yet realized; and I think iron establishments in this section of country must have all local advantages, and be prudently managed, or they will produce loss, not profit.

26. About one-half in raw material, one-third in labor, balance on capital.

27. Wheat, rye, corn and oats, hay and straw, \$4,800; bacon, butter, &c., \$1,500; 2,500 to \$3,000 in goods.

28. Don't know.

29. Bankruptcy would cause it to be abandoned; we now can barely live; then ruin must ensue; and our markets be supplied from abroad till imposition would cause reaction.

30. Bury it in the earth, or set fire to the works, and run away by the light.

31. The farmers, manufacturers, and other tradesmen can live by mutual dependence; destruction of the one is ruin to all.

32. No sale in our section.

33. 25 to \$30,000; none borrowed.

## DOCUMENT 14.—No. 75.—Continued.

| QUESTIONS.                                                                                                                                                                                                       | ANSWERS.                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent., and how gradual the reduction should be?                                      | 34. The present duties, counting accidents, losses from unforeseen causes, weather, bad roads, high price of labor and provisions, capital invested in land, buildings, stock, taxes, were deducted, will not yield 4 per cent. |
| 35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum? | 35. Take off the minimums, the minimums will not be long in existence: we need all the present protection.                                                                                                                      |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                      | 37. Bears a proportion of 4 to 6, I think.                                                                                                                                                                                      |
| 38. Extent of individual or household manufacture in the United States, and how much it has increased since the tariff of 1824?                                                                                  | 38. Is great, and has been almost called in to comparative existence since the tariff of 1824.                                                                                                                                  |
| 39. Average profit of money or capital in the United States?                                                                                                                                                     | 39. About $3\frac{1}{2}$ to $4\frac{1}{2}$ per cent.                                                                                                                                                                            |
| 40. Average rate of wages?                                                                                                                                                                                       | 40. 9 to \$12 per month when found, 16 to \$22 not found in board.                                                                                                                                                              |

The above answers are given on mature consideration; and I pledge myself for their being correct, as far as given.

DAVID N. HULLING.

Lewistown, Pa., April 20, 1832.

## DOCUMENT 14.—No. 76.

*Iron Furnace, Mifflin County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                         | ANSWERS.                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                          | 1. Mifflin county, Pennsylvania.                                                                                                        |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                               | 2. Blast furnace; water power; making pig iron; forge connected; three fired one.                                                       |
| 3. When established; and whether a joint-stock concern?                                                                                                                                                                                                                                            | 3. Established in 1820. Partners 2, Dot Watson and Wm. Brown, owners. The present proprietors are Wm. and J. Norris.                    |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                    | 4. Capital invested at the present \$50,000.                                                                                            |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                    | 5. Twenty thousand dollars.                                                                                                             |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit on that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. Ignorant of that, on account of the <del>very</del> being transferred so frequently into the hands of so many different individuals. |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                     | 8. All our capital belongs to the iron works; have none other in the State.                                                             |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                                                    | 9. 700 tons of pig metal annually manufactured; 300 tons of blooms; 50 tons of bar iron; pig metal \$25 per ton; blooms \$64 per ton; iron \$90 per ton, best quality.           |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                                                          | 10. Coal, for furnace and forge, 200,000 bushels; ore 1,400 tons; coal 4 cents per bushel; ore costs about \$4 per ton. Use 5,000 bushels of rye annually, 200 barrels of flour. |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                                                          | 11. No competition, unless by our own manufactures.                                                                                                                              |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                                                        | 12. 50 men, 20 women, and children in proportion: not bothered with slaves in the least, nor runaway blacks. Wages for men, \$20 per month per man, find themselves.             |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                                                         | 13. Hours in the day twelve.                                                                                                                                                     |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                          | 15. Forty horses constantly employed.                                                                                                                                            |
| 16. Whether the manufactures find a market at the manufactory? if not, how far they are sent to a market?                                                                                                                                                                                                                                | 16. 150 miles to market.                                                                                                                                                         |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                                                               | 17. They do to double the amount sent, both of pig and bar iron.                                                                                                                 |
| 20. Whether the manufacture is sold by the manufacturer for cash; and if on credit, at what credit; if bartered, for what?                                                                                                                                                                                                               | 20. At six months' credit generally.                                                                                                                                             |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                              | 21. Labor has increased from two to three dollars per month; the articles manufactured decreased, pig metal \$5, bar iron \$15.                                                  |
| 22. The price at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                      | 22. The works were not in my possession until within the last three years, and therefore I cannot tell for the preceding years; pig metal \$25; bar iron from \$80 to \$90.      |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                               | 23. The present duty, or \$25 per ton.                                                                                                                                           |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. From \$1,200 to \$1,500.                                                                                                                                                     |
| 26. What portion of the price of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                            | 26. Two-thirds in labor, and one-third in material and power.                                                                                                                    |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                     | 28. \$7,000 bacon, &c. \$2,000 domestic goods not known.                                                                                                                         |



## DOCUMENT 14.—No. 76—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. We would most certainly abandon it. |
| 31. Is there any pursuit in which you could engage from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent.?                                                                                                           | 31. Almost any thing would be better.   |

As the original proprietors are absent, we are not enabled to answer all the questions, and therefore leave it to your own judgment, from the outlines that we have given; and we believe that the answers that we have given are given with accuracy, &c.

For WILLIAM & JOHN NORRIS,  
SAMUEL PATTON.

## DOCUMENT 14.—No. 77.

*Blast Furnace, Mifflin County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                            |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Mifflin county, Pennsylvania.    |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Blast furnace.                   |
| 3. When established; and whether a joint stock concern?                                                                               | 3. In 1829 and 1830; three owners.  |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                       | 4. Twenty-five thousand dollars.    |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. Eighteen thousand dollars.       |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. 900 tons pig metal, worth \$ 24. |
| 12. Number of men, women and children employed, and average wages of each class?                                                      | 12. Fifty men, at \$ 20 per month.  |
| 13. How many hours a day employed; and what portion of the year?                                                                      | 13. Eleven hours.                   |
| 15. Number of horses or other animals employed?                                                                                       | 15. Sixty horses.                   |

WM. PATTON, *Agent.*

## DOCUMENT 14.—No. 78.

*Iron Foundry, Mifflin County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Pennsylvania, Mifflin county.                             |
| 2. Kind or description of the manufactory?                                                                                            | 2. Foundry and plough making.                                |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Eight thousand dollars.                                   |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Seven thousand dollars.                                   |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Cannot tell; perhaps ten per cent.                        |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. About \$9,000 in castings, &c. of different descriptions. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. Pig metal, and no foreign materials.                      |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. Twelve men and two horses.                               |
| 21. Average rate of wages?                                                                                                            | 21. One dollar per day.                                      |

COGSWELL, WEEKS &amp; Co.

## DOCUMENT 14.—No. 79.

*Iron Manufactory, Mifflin County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Huntingdon county, Pennsylvania.                                                                                                     |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Two fired forge; water power.                                                                                                        |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Established in 1830; joint stock concern.                                                                                            |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. The whole is worth about \$10,000.                                                                                                   |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. For the forge, from \$16 to \$17,000, including wheat, rye, corn, pig iron, wages, &c.; that is, for one year.                       |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. No borrowed capital; annual rate of profit is something like \$2,000.                                                                |
| 7. Causes of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                               | 7. I know but little alteration on the rates, as I have but lately begun the business.                                                  |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. The other property, is in the above mentioned county and State, and profits me annually something like \$600: it is a mill and farm. |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                      | ANSWERS.                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?</p>                                                                                                                                                                                                    | <p>9. Articles manufactured consist of iron and blooms; manufacture something like \$20,000 worth. The articles are of good quality. We manufacture about half the number of dollars' worth of blooms, and the remainder is bar iron.</p>             |
| <p>10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?</p>                                                                                                                                                                                                          | <p>10. We make use of no foreign articles, and the other you will see in question 5th: but the pig metal is worth \$9,000 per annum that we work up.</p>                                                                                              |
| <p>12. Number of men, women, and children employed, and average wages of each class?</p>                                                                                                                                                                                                                                                        | <p>12. The wages of the 20 men average about \$4,320; the wages that I give different; differ frequently 4 or 5 dollars per month.</p>                                                                                                                |
| <p>13. How many hours a day employed, and what portion of the year?</p>                                                                                                                                                                                                                                                                         | <p>13. 12 hours per day the whole year.</p>                                                                                                                                                                                                           |
| <p>14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?</p>                                                                                                                                                                                                         | <p>14. There are five hands attending the mill and farm. I pay them \$12 per month per man.</p>                                                                                                                                                       |
| <p>15. Number of horses or other animals employed?</p>                                                                                                                                                                                                                                                                                          | <p>15. Horses. We keep in constant employ about 12 about the forge; on the farm 4 horses are kept in employ.</p>                                                                                                                                      |
| <p>16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?</p>                                                                                                                                                                                                                                | <p>16. We send to Pittsburgh and Philadelphia what we do send to market; but we sell considerably about home.</p>                                                                                                                                     |
| <p>17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?</p>                                                                                                                                                                                                               | <p>17. No competition at home, but in Pittsburgh and Philadelphia they do to a considerable extent.</p>                                                                                                                                               |
| <p>18. Where are the manufactures consumed?</p>                                                                                                                                                                                                                                                                                                 | <p>18. In America.</p>                                                                                                                                                                                                                                |
| <p>19. Whether any of the manufactures are exported to foreign countries? and, if so, where?</p>                                                                                                                                                                                                                                                | <p>19. None, I believe, but am not certain.</p>                                                                                                                                                                                                       |
| <p>20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?</p>                                                                                                                                                                                                               | <p>20. For cash in part, and credit in part. When cash'd, we make a discount of about 2½ per cent.</p>                                                                                                                                                |
| <p>21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased, and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?</p>                                                                               | <p>21. The cost of manufactured articles is about the same that it was when I began.</p>                                                                                                                                                              |
| <p>22. The prices at which the manufactures have been sold by the manufacturer since the establishment?</p>                                                                                                                                                                                                                                     | <p>22. Iron \$90 per ton; blooms \$67 50 cts per ton. These have been about the rates since the establishment.</p>                                                                                                                                    |
| <p>23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?</p>                                                                                                                                                                                               | <p>23. If you consider Pittsburgh and Philadelphia home markets, about the present duty.</p>                                                                                                                                                          |
| <p>24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?</p>                                                                                                                                                                                                                                         | <p>24. The present mode, so far as we know, is sufficient.</p>                                                                                                                                                                                        |
| <p>25. What has been the rate of your profits annually for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually?</p> | <p>25. We have been, so far, laying out our money as fast as we made it in making improvements; and we are also brothers, and keep no strict account with one another, so that we do not know any thing about the dividend that ought to be made.</p> |

## DOCUMENT 14.—No. 79.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                            | 26. Wheat, rye, corn, bacon, &c. \$3,690; about \$4,320 for labor.                                                              |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                        | 27. Judge, if you please, from my former statements.                                                                            |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. I would abandon the business.                                                                                               |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. Employ it in the best manner possible; perhaps convert the forge into a fish basket, as it is at the lower part of the dam. |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                           | 31. A deduction of that kind would produce such an emotion among the people, that I cannot say.                                 |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them? and what is the extent of that circle?                                                                             | 32. No salt; in our situation judge of the circle by the different markets above mentioned.                                     |
| 33. Amount of capital, and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                            | 33. Have no borrowed capital, and I made a statement of the other above.                                                        |

WM. &amp; A. COUCH.

## DOCUMENT 14.—No. 80.

*Iron Works, Mifflin County, West Pennsylvania.*

| QUESTIONS.                                                                                       | ANSWERS.                         |
|--------------------------------------------------------------------------------------------------|----------------------------------|
| 1. State and county in which the manufactory is situated?                                        | 1. Pennsylvania, Mifflin county. |
| 2. Kind or description of the manufactory? and whether water, steam, or other power?             | 2. Furnace; water power.         |
| 3. When established; and whether a joint stock concern?                                          | 3. In 1812.                      |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                  | 4. \$19,000.                     |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages? | 5. \$8,000.                      |

## DOCUMENT 14.—No. 80.—Continued.

| QUESTIONS.                                                                                                                            | ANSWERS.                                            |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. Castings and pig metal amount to about \$10,000. |
| 12. Number of men, women, and children employed, and average wages of each class?                                                     | 12. 20 men.                                         |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?      | 14. \$22 per month.                                 |
| 15. Number of horses or other animals employed?                                                                                       | 15. 16 horses.                                      |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 16. In the neighborhood.                            |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale? and to what extent?            | 17. No.                                             |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 19. None.                                           |

MICHAEL WALLACE.

## DOCUMENT 14.—No. 81.

*Messrs. Johns and Huffman's Forge, Northumberland County, Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Pennsylvania, Northumberland county.             |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Forge; water power.                              |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. In A. D. 1825.                                   |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. About \$5,000.                                   |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. About \$4,000.                                   |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. Three per cent.                                  |
| 7. Cause of the increase (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                               | 7. Want of capital and competition of foreign iron. |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. From 6 to 25 per cent.                           |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. 50 tons bar iron.                                |

## DOCUMENT 14.—No. 29—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                                                                                                                                                                                                            | 10. 5,000 bushels coal, at 4 cents per bushel; 250 tons of pig metal, at \$30 per ton. |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                                                            | 11. From \$65 to \$85 per ton.                                                         |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                                                          | 12. 8 men at \$25 per month.                                                           |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. 10 horses.                                                                         |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. In the district one half; rest sent to Philadelphia.                               |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                                                                 | 17. They do—light iron particularly.                                                   |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                                                                   | 19. Not.                                                                               |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Cash and barter.                                                                   |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. From \$90 to \$100 per ton.                                                        |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. An increase of 30 per cent. on light iron.                                         |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Three per cent.                                                                    |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29. Must abandon—could not manufacture at reduced prices.                              |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to twelve and a half per cent?                                                                                                                                                                | 31. Many pursuits.                                                                     |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                                                                                                | 32. They are not.                                                                      |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent., and how gradual the reduction should be?                                                                                                                                                                  | 34. They do not now yield 6 per cent.                                                  |

## DOCUMENT 14.—No. 82.

*Iron Foundry, Northumberland County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Pennsylvania, Northumberland county.                                                                                                                                                                            |
| 2. Kind or description of the manufactory?                                                                                            | 2. Foundry. Horse power. 5 horses.                                                                                                                                                                                 |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Two thousand dollars.                                                                                                                                                                                           |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Two thousand dollars.                                                                                                                                                                                           |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. About seven per cent.                                                                                                                                                                                           |
| 6. Cause of the increase (or decrease, as the case may be) of profit?                                                                 | 6. Not experienced any increase or decrease.                                                                                                                                                                       |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. \$10,000 worth. Stoves, ploughs, mill-gearing, and machinery of various kinds of a good quality. Cooking stoves are worth \$25, common stoves \$9, coal stoves \$13, ploughs \$2 50, mill-gearing \$90 per ton. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. 100 tons of pig, at \$31 per ton.                                                                                                                                                                               |
| 9. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                        | 9. None brought to this country.                                                                                                                                                                                   |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. Ten men, from 75 cts. to \$2 per day.                                                                                                                                                                          |
| 11. How many hours a day employed; and what portion of the year?                                                                      | 11. About 12 hours per day all the year.                                                                                                                                                                           |
| 12. Whether the manufactures find a market at the manufactory? if not, how far are they sent to market?                               | 12. Find market at the factory.                                                                                                                                                                                    |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place, and to what extent?                    | 13. Not experienced any.                                                                                                                                                                                           |
| 14. Where are the manufactures consumed?                                                                                              | 14. In this and the neighboring counties.                                                                                                                                                                          |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                             | 15. Not any exported.                                                                                                                                                                                              |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on a credit, at what credit? if bartered, for what?          | 16. Sold generally at a credit of 6 months.                                                                                                                                                                        |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                  | 17. Refer to answer to question No. 7.                                                                                                                                                                             |
| 19. What has been the rate of your profits annually for the last three years?                                                         | 19. About seven per cent.                                                                                                                                                                                          |
| 20. Amount of capital?                                                                                                                | 20. About four thousand dollars.                                                                                                                                                                                   |
| 21. Average rate of wages?                                                                                                            | 21. Answered No. 10.                                                                                                                                                                                               |

## DOCUMENT 14.—No. 83.

*Forge and Furnace, Union County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Pennsylvania, Union county.                                                                                                                              |
| 2. Kind and description of the manufactory?                                                                                                | 2. Forge and furnace.                                                                                                                                       |
| 3. Capital invested in ground and buildings?                                                                                               | 3. Eighteen thousand dollars.                                                                                                                               |
| 4. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                           | 4. Nineteen thousand dollars.                                                                                                                               |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. Three per cent.                                                                                                                                          |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                    | 6. The competition in market of foreign iron.                                                                                                               |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. About 240 tons of bar iron, and 360 tons of metal, superior quality. The metal being converted into bar iron, is worth about \$82 per ton at an average. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. 1,000 tons ore, 240,000 bushels charcoal. Ore worth \$3,000, and coal worth \$6,000.                                                                     |
| 9. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                             | 9. From 70 to \$95 per ton: imported from England and Russia principally.                                                                                   |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. Forty men, at about 75 cts. per day.                                                                                                                    |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. Employed about 12 hours a day all the year.                                                                                                             |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. Sold principally at Philadelphia. Distance 170 miles.                                                                                                   |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 13. They do, to an extent of three per cent. and upwards.                                                                                                   |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the United States.                                                                                                                                   |
| 15. Whether any of the manufactures are exported to foreign countries; and, if so, where?                                                  | 15. Not any exported to my knowledge.                                                                                                                       |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on a credit, at what credit? if bartered, for what?               | 16. Sold generally at a credit of 6 months.                                                                                                                 |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. At from 75 to \$100 per ton.                                                                                                                            |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. Forty dollars per ton on bar iron.                                                                                                                      |
| 19. What has been the rate of your profits annually for the last three years?                                                              | 19. About three per cent.                                                                                                                                   |
| 20. Amount of capital?                                                                                                                     | 20. Stated in answers to questions number 3 and 4.                                                                                                          |
| 21. Average rate of wages?                                                                                                                 | 21. Stated in answer to question No. 10.                                                                                                                    |
| 22. Whether by water or other power?                                                                                                       | 22. By water power.                                                                                                                                         |

JOS. EVANS.



## DOCUMENT 14.—No. 84.

*Iron Forge, Union County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Pennsylvania, Union county.                                            |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Forge, water power.                                                    |
| 3. Capital invested in ground and buildings?                                                                                               | 3. Ten thousand dollars.                                                  |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. About thirteen thousand dollars.                                       |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. Two per cent.                                                          |
| 6. Cause of the increase (or decrease, as the case may be) of profit?                                                                      | 6. The competition in market of foreign iron.                             |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. Bar iron, 170 tons; superior quality worth at an average \$35 per ton. |
| 8. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?             | 8. Two hundred and fifty tons of pigs, at \$30 per ton.                   |
| 9. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                             | 9. From sixty to eighty dollars per ton, from England.                    |
| 10. Number of men, women, and children, employed, and average wages of each class?                                                         | 10. Twenty-two men at 75 cents per day.                                   |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. Employed about twelve hours, all the year.                            |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. Sold principally at Philadelphia, distance 150 miles.                 |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                 | 13. They do, to the amount of 5 per cent. and upwards.                    |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the United States.                                                 |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. Not any exported to my knowledge.                                     |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Sold generally at a credit of six months.                             |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. From seventy-five to one hundred dollars.                             |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. Forty dollars at least.                                               |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 19. About two per cent.                                                   |
| 20. Amount of capital?                                                                                                                     | 20. Stated in answer to questions Nos. 3 and 4.                           |
| 21. Average rate of wages?                                                                                                                 | 21. Stated in answer to question No. 10.                                  |

Mr. A. P. Moderwell conducts his works, and has for four years past, without the use of any kind of spirituous liquors.

JAMES GAMBLE.

## DOCUMENT 14.—No. 85.

*Teonista Bloomery, Venango County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Venango county, Pennsylvania.                                                                                         |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Bloomery forge, water power.                                                                                          |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. In 1828, joint stock.                                                                                                 |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Seven thousand dollars.                                                                                               |
| 5. Average amount in materials, in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                          | 5. Four thousand dollars.                                                                                                |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. Twenty per cent.                                                                                                      |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Cant say.                                                                                                             |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. Fifty tons blooms and bar iron; bar at \$120, blooms at \$90.                                                         |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. Two hundred tons ore, all domestic.                                                                                  |
| 12. Number of men, women, and children, employed, and average wages of each class?                                                                                                                                                                                                                   | 12. Sixteen men, at \$20 per month.                                                                                      |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                     | 13. Twelve hours all the year.                                                                                           |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 14. Sixteen dollars per month.                                                                                           |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. Five horses and three yoke oxen.                                                                                     |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. Bar iron in the neighborhood; blooms at Pittsburgh, 160 miles.                                                       |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                           | 17. None, or to very small amount.                                                                                       |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. Bar iron in the neighborhood; blooms at the rolling mills in Pittsburgh.                                             |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                             | 19. None.                                                                                                                |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                           | 20. Part cash, part bartered for articles of produce for support of bloomery; blooms sold at four, six, and nine months. |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased, and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                           | 21. Price of blooms rather increased; some increase in cost of materials—uncertain what.                                 |

## DOCUMENT 14.—No. 85—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. Bar iron \$120, blooms 60 to \$83.                                                                                                                       |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Five hundred dollars.                                                                                                                                    |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. The cost of materials and labor about equal.                                                                                                             |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. About eight hundred dollars.                                                                                                                             |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29. If it would have any effect on the Pittsburgh market, we must stop.                                                                                      |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. Dont know.                                                                                                                                               |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent?                                                                                                                                                                               | 31. Almost any other.                                                                                                                                        |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                                                                                                | 32. No doubt they are, but the distance depends on whether it is water or land carriage, and the kind and state of the roads; a radius of one hundred miles. |
| 33. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?                                                                                                                                                                                                           | 33. Decreased.                                                                                                                                               |
| 40. Average rate of wages?                                                                                                                                                                                                                                                                                                                 | 40. Sixteen dollars.                                                                                                                                         |

JAMES L. CHACE &amp; Co

## DOCUMENT 14.—No. 86.

*French Creek Forge, Venango County, West Pennsylvania.*

| QUESTIONS.                                                                           | ANSWERS.                         |
|--------------------------------------------------------------------------------------|----------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Pennsylvania, Venango county. |
| 2. Kind or description of the manufactory, and whether water, steam, or other power? | 2. Forge, water power.           |

## DOCUMENT 14.—No. 39—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. In 1826; individual property.                                                        |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Eleven thousand dollars.                                                             |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. Six thousand dollars.                                                                |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. About two thousand dollars per year.                                                 |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. Bar iron and blooms 150 tons; bar iron \$120, blooms \$75, per ton.                  |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. All pig iron; 450 tons, \$12,000; all domestic.                                     |
| 12. Number of men, women, and children, employed, and average wages of each class?                                                                                                                                                                                                                   | 12. Twenty-four men, \$18 per month.                                                    |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                     | 13. Twelve hours, all the year.                                                         |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. Eight horses and three yoke of oxen.                                                |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. The bar iron at the manufactory; the blooms at Pittsburgh, 130 miles by water.      |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                           | 17. None.                                                                               |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. Bar iron in the vicinity, blooms at the rolling mills, Pittsburgh.                  |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                             | 19. None.                                                                               |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                           | 20. Part for cash, and part bartered for articles for support of the forge.             |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased, and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                           | 21. Rather decreased; pig metal increased in price from which the iron is manufactured. |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                 | 22. Bar iron about 120 dollars per ton, and blooms from 75 to \$80.                     |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                           | 23. Present rates of duty too low.                                                      |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted                                                                              | 25. The establishment rented for the last three years for \$1,000 per year.             |

## DOCUMENT 14.—No. 86—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually?                                                                                                                                                      |                                                                                                                                 |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                            | 26. The cost of pig metal bought for the manufacture of iron cost about three-fourths, and wages, labor, &c., about one-fourth. |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                        | 27. About \$1,000.                                                                                                              |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. It would cause me to abandon.                                                                                               |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. I don't know.                                                                                                               |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                           | 31. Yes.                                                                                                                        |

SAMUEL HAYS.

## DOCUMENT 14.—No. 87.

*Franklin Forge, Venango County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                                | 1. Pennsylvania, Venango county.                                                                                                                                                                              |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                     | 2. Forge or bloomery, six fires, two hammers; water power.                                                                                                                                                    |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                                  | 3. Established in 1828; owned exclusively by Alexander McCalmont.                                                                                                                                             |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                          | 4. \$17,600.                                                                                                                                                                                                  |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                          | 5. \$8,000.                                                                                                                                                                                                   |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of the profit upon that portion which is not borrowed? | 6. The profits have not exceeded five per cent. on the capital in any year since the commencement, after deducting the expense for necessary repairs; profits have decreased.                                 |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                                  | 7. Improvement of the State by roads and canals has increased the facilities of transportation over the mountains; that, together with domestic competition, has reduced the price of iron from 120 to \$100. |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                           | 8. I think not less than 10 per cent.                                                                                                                                                                         |

## QUESTIONS.

9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?

10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?

11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?

12. Number of men, women, and children employed, and average wages of each class?

13. How many hours a day employed? and what portion of the year?

14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?

15. Number of horses or other animals employed?

16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?

17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?

18. Where are the manufactures consumed?

19. Whether any of the manufactures are exported to foreign countries? and if so, where?

20. Whether the manufacture is sold by the manufacturer for cash; and if on credit, at what credit? if bartered, for what?

21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?

22. The prices at which the manufactures have been sold by the manufacturer since the establishment?

23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?

24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?

25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually?

26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?

## ANSWERS.

9. \$12,000; bar iron from 100 to \$120, blooms 80 to \$95, made from ore.

10. \$56,000; all domestic.

11. No foreign iron sold in this county.

12. Twenty-six men constantly, six more during the summer; one dollar per day.

13. Fourteen hours; 10 months.

14. Same county; \$16 per month.

15. Ten horses, six oxen.

16. Part sold at the manufactory, part at Pittsburgh, 120 miles.

17. Think not.

18. Cannot say; part in the vicinity of the works.

19. Cannot say.

20. Sold on a credit of six months; generally for cash.

21. Decreased; last year the labor not so high; the decrease is not one-half per cent.

22. Bar iron from 120 to \$95; blooms from 95 to 75.

23. Not less than 33 per cent. ad valorem.

24. Do not know.

25. Have not exceeded five per cent., and have been all expended in enlarging the establishment: the only source of profit is on the sale of goods; one-half of all wages paid in goods.

26. Five per cent. raw material, ore, and wood; 90 wages and labor; 5 profits.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                        | 27. Agricultural productions and domestic manufactures consumed by hands and team about \$8,000.                                                                                                                                                                                                                                      |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                    | 28. Cannot say.                                                                                                                                                                                                                                                                                                                       |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Any reduction on prices, without corresponding deduction on labor and agricultural products, would cause an enhancement.                                                                                                                                                                                                          |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. Capital invested in the manufacture would be reduced in value to the price of the land alone, say \$2,000; any surplus could only be employed in agriculture, suits, which are alone supported by the iron works; both would cease about the same time in this county, as the iron works, and make the market for these products. |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                             | 32. They were, in West Pennsylvania, until the improvements by canal, which are now being made, is drawing them nearer a foreign competition: any change that would affect the Pittsburgh market will be immediately felt in this county.                                                                                             |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                            | 33. \$17,000; all invested in the water teams, tools, &c. &c.; wages are paid for the sale of manufactured articles, which is the only source of revenue.                                                                                                                                                                             |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent.; and how gradual the reduction should be?                                                                                             | 34. Cannot say; think any reduction in duty on iron would destroy all the work in this county.                                                                                                                                                                                                                                        |
| 35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum?                                                        | 35. Cannot say.                                                                                                                                                                                                                                                                                                                       |
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                                                                                                     | 36. Cannot say.                                                                                                                                                                                                                                                                                                                       |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                                                                             | 37. Do not know.                                                                                                                                                                                                                                                                                                                      |
| 38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?                                                                                                                                        | 38. Do not know.                                                                                                                                                                                                                                                                                                                      |
| 39. Average profit of money or capital in the United States?                                                                                                                                                                                                            | 39. Do not know.                                                                                                                                                                                                                                                                                                                      |
| 40. Average rate of wages?                                                                                                                                                                                                                                              | 40. Do not know.                                                                                                                                                                                                                                                                                                                      |

Respectfully, yours,

A. McCALMONT.

FRANKLIN, 25th April, 1831.

P. S. The quantity of bar iron and blooms manufactured as above, are made from the ore and not from pig iron, and would be equal to 180 tons of pig iron.

A. McC.

DOCUMENT 14.—No. 88.

*Oil Creek Furnace, Venango County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Pennsylvania, Venango county.                                                               |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Blast furnace, water power.                                                                 |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. In 1825; joint stock concern.                                                               |
| 4. Capital invested in ground and buildings, and water power and in machinery?                                                                                                                                                                                                                       | 4. \$10,000.                                                                                   |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. \$12,000.                                                                                   |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. Thirty-three per cent.                                                                      |
| 7. Cause of the increase (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                               | 7. Fluctuation of the market.                                                                  |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. 350 tons of pig iron and 50 tons of castings; pigs from 25 to \$35 per ton; castings \$65.  |
| 10. Quantity and value of different kinds of raw materials annually used, distinguishing between foreign and domestic products?                                                                                                                                                                      | 10. \$1,000; all domestic.                                                                     |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. Cannot say.                                                                                |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. Forty men, \$18 per month.                                                                 |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                     | 13. Twelve hours; all the year.                                                                |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 14. \$16 per month in this part of Pennsylvania.                                               |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. Twelve yoke of cattle.                                                                     |
| 16. Whether the manufactures find a market at the manufactory? if not, how far they are sent to a market?                                                                                                                                                                                            | 16. Castings at the furnace; the pigs at Pittsburgh, distant 120 miles by water.               |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                           | 17. No competition of a like foreign article.                                                  |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. Pigs at the foundries in Pittsburgh; castings in the neighborhood.                         |
| 19. Whether any of the manufactures are exported to foreign countries; and if so, where?                                                                                                                                                                                                             | 19. None.                                                                                      |
| 20. Whether the manufacture is sold by the manufacturer for cash; and if on credit, at what credit; if bartered, for what?                                                                                                                                                                           | 20. On an average a credit of four and a half months.                                          |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                           | 21. The pig metal has fluctuated from year to year 25 per cent.; castings continue stationary. |



| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. 26, 28, 30, 33, and 37 dollars per ton.                                                         |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. Present rates low enough.                                                                       |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. Cannot say.                                                                                     |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually. | 25. \$3,000.                                                                                        |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. Raw materials twelfth part; labor two-thirds; remainder profits.                                |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. 1,000 bushels of wheat; 4,000 bushels of rye, corn, and oats, and 20,000 lbs. of pork and beef. |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                       | 28. Do not know.                                                                                    |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent, with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                     | 29. If it would lessen the price at Pittsburgh, we must stop.                                       |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. I do not know.                                                                                  |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                              | 31. Yes.                                                                                            |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                                                                                                | 32. Cannot say.                                                                                     |
| 33. Amount of capital, and what portion the borrowed capital bears to that which is real?                                                                                                                                                                                                                                                  | 33. Twelve and a half per cent.; none borrowed—only advanced on the manufactured article.           |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent., and how gradual the reduction should be?                                                                                                                                                                  | 34. Cannot say.                                                                                     |
| 35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum?                                                                                                                           | 35. Cannot say.                                                                                     |

## DOCUMENT 14.—No. 88—Continued.

| QUESTIONS.                                                                                                                       | ANSWERS.        |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                              | 36. Cannot say. |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                      | 37. Cannot say. |
| 38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824? | 38. Cannot say. |
| 39. Average profit of money or capital in the United States?                                                                     | 39. Cannot say. |
| 40. Average rate of wages?                                                                                                       | 40. Cannot say. |

W. &amp; G. CREARY.

## DOCUMENT 14.—No. 89.

*Bea and Myer's Clarion Furnace, Venango County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                          | ANSWERS.                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                           | 1. Pennsylvania, Venango county.                                     |
| 2. Kind of description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                | 2. Blast furnace; water power.                                       |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                             | 3. In 1829; joint stock.                                             |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                     | 4. \$15,000.                                                         |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                     | 5. \$10,000.                                                         |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. 33 per cent.                                                      |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                               | 9. 500 tons pig metal, \$30 per ton; 25 tons castings, \$60 per ton. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                     | 10. \$8,000 domestic.                                                |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                   | 12. 50 men at \$20 per month.                                        |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                    | 13. 12 hours; all the year.                                          |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                     | 15. 12 horses; 2 yoke cattle.                                        |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                           | 16. Pittsburgh, (water) 120 miles; castings at home.                 |

## DOCUMENT 14.—No. 89—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                                                                 | 17. No.                                                                |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. Foundries at Pittsburgh.                                           |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                                                                                                  | 19. No.                                                                |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. 3, 6, and 9 months.                                                |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. \$26 to \$35.                                                      |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. Present rate low enough.                                           |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. \$3,000.                                                           |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. 1,000 bushels wheat; 3,000 oats, ry. and corn; 20,000 domestic.    |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29. If it would have any effect on the Pittsburgh market we must stop. |

## DOCUMENT 14.—No. 90.

*John Anderson's Venango Furnace, Venango County, West Pennsylvania.*

| QUESTIONS.                                                                                       | ANSWERS.                                       |
|--------------------------------------------------------------------------------------------------|------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                        | 1. State of Pennsylvania, Venango county.      |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?             | 2. Blast furnace; water power.                 |
| 3. When established; and whether a joint stock concern?                                          | 3. Established in 1825. A joint stock concern. |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                  | 4. Ten thousand dollars.                       |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages? | 5. Nine thousand dollars.                      |

| QUESTIONS.                                                                                                                                                                                                                                                                                        | ANSWERS.                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. No profit. The furnace ceased operations in 1830 owing to the ore failing both in quantity and quality. |
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                             | 7. See answer No. 6.                                                                                       |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                    | 8. Not more than 12½ per cent. at the most successful works.                                               |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                             | 9. 300 tons of pig iron and 40 tons of castings.                                                           |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                   | 10. Ore and wood \$7,000.                                                                                  |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                   | 11. I cannot say.                                                                                          |
| 12. Number of men, women, and children, employed, and average wages of each class?                                                                                                                                                                                                                | 12. 40 men annually; \$18 per month.                                                                       |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                  | 13. 12 hours per day, and all the year.                                                                    |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                  | 14. \$16 per month in this part of Pennsylvania.                                                           |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                   | 15. 35 horses.                                                                                             |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                         | 16. Market entirely in Pittsburgh, distance 100 miles, by water.                                           |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                        | 17. No foreign articles of this description in competition.                                                |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                          | 18. In Pittsburgh the pig iron is used by foundries.                                                       |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                          | 19. None.                                                                                                  |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                        | 20. On an average credit of 4½ months.                                                                     |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                        | 21. It has fluctuated from year to year 25 per cent.                                                       |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                              | 22. Pig iron at 24, 28, 30, 33, and 35, dollars, per ton. Castings \$50.                                   |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                        | 23. The present rates are low enough.                                                                      |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                      | ANSWERS.                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <p>24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?</p>                                                                                                                                                                                                                                         | <p>24. I do not know.</p>                                                                                               |
| <p>25. What has been the rate of your profits annually for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually?</p> | <p>25. None, as the concern has been unsuccessful.</p>                                                                  |
| <p>26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?</p>                                                                                                                                                             | <p>26. The whole amount, and more.</p>                                                                                  |
| <p>27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?</p>                                                                                                                                                                                         | <p>27. 1,500 bushels wheat; 3,500 bushels rye, corn, and oats, and 20,000 lbs. pork and beef.</p>                       |
| <p>28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?</p>                                                                                                                                                                                                     | <p>28. I do not know.</p>                                                                                               |
| <p>29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?</p>                                                                  | <p>29. It would put a stop to the furnaces if it would have any effect on the Pittsburgh market.</p>                    |
| <p>30. If it would cause you to abandon your business, in what way would you employ your capital?</p>                                                                                                                                                                                                                                           | <p>30. It is impossible to say: I speak for those in operation.</p>                                                     |
| <p>31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to twelve and a half per cent.?</p>                                                                                                                                                              | <p>31. Yes; a variety—suppose that of merchandizing.</p>                                                                |
| <p>32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?</p>                                                                                                                                              | <p>32. I cannot say.</p>                                                                                                |
| <p>33. Amount of capital, and what proportion the borrowed capital bears to that which is real?</p>                                                                                                                                                                                                                                             | <p>33. 12½ per cent., as none can be borrowed but by getting money advanced on account of the manufactured article.</p> |
| <p>34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; and how gradual the reduction should be?</p>                                                                                                                                                                | <p>34. I cannot say.</p>                                                                                                |
| <p>35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum?</p>                                                                                                                         | <p>35. I do not know.</p>                                                                                               |

DOCUMENT 14.—No. 91.

*Blast Furnace, Venango County, Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. State of Pennsylvania, Venango county.                       |
| 2. Kind or description of the manufactory; and whether water, steam or other power?                                                                                                                                                                                                                  | 2. Blast furnace; water power.                                  |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. In 1826; joint stock concern.                                |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. \$10,000; water power and machinery.                         |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. \$8,000.                                                     |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. \$2,000; real estate less valuable yearly, and profits less. |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. Greater difficulty in obtaining ore and timber.              |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Not more than 12½ per cent. at the most successful works.    |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. Three hundred and fifty tons pig iron.                       |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between Foreign products and domestic products?                                                                                                                                                                      | 10. \$7,000; all domestic.                                      |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. I cannot say.                                               |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. 40 men annually; 18 dollars per month.                      |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                     | 13. 12 hours per day, all the year.                             |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 14. 16 dollars per month in this part of Pennsylvania.          |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. 25 horses.                                                  |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. Market entirely in Pittsburgh; distance 110 miles by water. |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                           | 17. No foreign article of this description in competition.      |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. Pittsburgh; used by foundries.                              |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                             | 19. None.                                                       |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                           | 20. On an average credit of 4½ months.                          |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                 | 21. It has fluctuated from year to year 25 per cent.                                                        |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. Pig iron 24, 28, 30, 23, and 36 dollars per ton.                                                        |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. Present rates low enough.                                                                               |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. I do not know.                                                                                          |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Average \$2,000 per annum.                                                                              |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. 1,500 bushels of wheat; 3,500 bushels of rye, corn, and oats; 20,000 lbs. port and beef.                |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                       | 28. I do not know.                                                                                          |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent, with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                     | 29. It would put a stop to furnace, it would have any effect on the Pittsburgh market.                      |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. Impossible to say.                                                                                      |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to twelve and a half per cent.?                                                                                                                                                                | 31. Yes.                                                                                                    |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                                                                                                | 32. I cannot say.                                                                                           |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                                                                                               | 33. 12½ per cent., as none can be borrowed, but getting money advanced on some of the manufactured article. |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent.; and how gradual the reduction should be?                                                                                                                                                                | 34. I cannot say.                                                                                           |

## DOCUMENT 14.—No. 91—Continued.

| QUESTIONS.                                                                                                                                                                                                       | ANSWERS.           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum? | 35. I do not know. |
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                                              | Ditto.             |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                      | Ditto.             |
| 38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?                                                                                 | Ditto.             |
| 39. Average profit of money or capital in the United States?                                                                                                                                                     | Ditto.             |
| 40. Average rate of wages?                                                                                                                                                                                       | Ditto.             |

GEORGE McCLELLAND.

## DOCUMENT 14.—No. 92.

*Silver Plate Manufactory, Washington County, Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Washington county, Pennsylvania.                                                                                                                                                                                      |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                  | 2. Manufactory of silver-plated ware, viz. bridle-pits, stirrup-irons, coach and harness mounting, &c. &c.                                                                                                               |
| 3. When established, and whether a joint stock concern?                                                                               | 3. Established in 1816; not joint stock concern, but individual.                                                                                                                                                         |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                       | 4. As near as can be ascertained, \$5,000.                                                                                                                                                                               |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                               | 7. Profits decreased 10 per cent.; cause, competition of domestic manufactured article. Increase of demand for domestic article caused, as I believe, by duty on foreign article, will make up for reduction in profits. |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. From \$10,000 to \$12,000 annually.                                                                                                                                                                                   |
| 12. Number of men, women, and children employed, and average wages of each class?                                                     | 12. From 20 to 25.                                                                                                                                                                                                       |
| 13. How many hours a day employed, and what portion of the year?                                                                      | 13. 10 hours during the whole year.                                                                                                                                                                                      |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 16. Find a market, half, within 20 miles; the other different distant places.                                                                                                                                            |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?            | 17. The foreign article, at present duty, enters into a fair competition with the domestic.                                                                                                                              |



## DOCUMENT 14.—No. 92—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                               | 20. Sold on a credit of 6 months.                                                                                           |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?              | 21. Cost decreased on account of reduced price of iron and labor.                                                           |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                               | 23. The present rate of duty will no more than enable us to compete with the foreign article in our markets.                |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                         | 24. I believe that a specific duty is the only way in which frauds can be prevented.                                        |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                         | 27. Agricultural products, \$2,000; iron and other domestic manufacturing articles, \$5,000; silver and wages not included. |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. I would be obliged to abandon or reduce my capital.                                                                     |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                           | 30. No other investiture would be better than agriculture, or dealing in foreign manufactures of the like kind.             |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                            | 31. There would probably be various                                                                                         |

Sir, respectfully yours, &amp;c.

BEN. KENDRICK

April 25, 1832.

## DOCUMENT 14.—No. 93.

*Jacob D. Malhiot's Iron Furnace, Westmoreland County, West Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.                                              |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. In Westmoreland county, and State of Pennsylvania. |
| 2. Kind or description of the manufactory?                                                      | 2. Blast furnace; water power.                        |
| 3. Capital invested in ground and buildings?                                                    | 3. \$30,000.                                          |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 4. \$18,000 per annum.                                |

## DOCUMENT 14.—No. 93—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. 25 per cent.                                                                                                                                                                                                                          |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                    | 6. Prices of the manufactured articles have fallen; but, as the prices of wages and all articles of consumption have fallen also, the profits may be considered as the same.                                                             |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. Pig metal, 600 tons, at \$30, \$18,000; castings, 100 tons, at \$50, \$5,000.                                                                                                                                                         |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. Ore, 2,400 tons, \$1,440; wood, 5,000 cords, \$1,250.                                                                                                                                                                                 |
| 9. Number of men, women and children employed, and average wages of each class?                                                            | 10. 50 men, from 12 to \$15 per month.                                                                                                                                                                                                   |
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. 10 hours per day, throughout the year.                                                                                                                                                                                               |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. A small part of the castings sold at the works; the principal part and all the pig metal sold in Pittsburgh.                                                                                                                         |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 13. No competition.                                                                                                                                                                                                                      |
| 14. Where are the manufactures consumed?                                                                                                   | 14. Pig metal in Pittsburgh; castings west of that place.                                                                                                                                                                                |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                  | 15. Unable to say.                                                                                                                                                                                                                       |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Sometimes for cash, but generally at a credit of three and six months.                                                                                                                                                               |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. About 1819-'20, pig metal sold at \$70 per ton, and castings at \$100; a few years afterwards pig metal fell to \$30 per ton, and castings to \$40. At present pig metal is worth from 30 to \$35 per ton, castings from 50 to \$55. |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. Unable to reply.                                                                                                                                                                                                                     |

N. B. This is the only iron works in operation at present in this county.

ED. JOHNSTON.

## DOCUMENT 14.—No. 94.

*Andrew Murphy's Woollen Manufactory, Alleghany County, West Pennsylvania.*

| QUESTIONS.                                                                           | ANSWERS.                                                                           |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. State of Pennsylvania, Alleghany county.                                        |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. Satinets, and a few broad cloths; water nine, and steam three, months per year. |

| QUESTIONS.                                                                                                                                                                                                                                                 | ANSWERS.                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                    | 3. Established in 1822; joint stock.                                   |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                            | 4. \$7,000.                                                            |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                           | 5. \$5,000, raw materials and wages.                                   |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                    | 7. Decrease, high price of wool and advance of wages.                  |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                             | 8. Unable to answer.                                                   |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                      | 9. About 8,000 yards, average 80 cents, \$6,400.                       |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                            | 10. Domestic, \$4,700; foreign, \$308.                                 |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                            | 11. Average price in our market.                                       |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                          | 12. 17 men at 75 cents, and 5 boys at \$34 cents, per day.             |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                           | 13. Average 11 hours per day.                                          |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                           | 14. Unable to answer.                                                  |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                            | 15. One horse.                                                         |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                  | 16. To Pittsburgh, four miles from factory.                            |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                 | 17. Few foreign goods of the same description are sold in this market. |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                   | 18. In Western Pennsylvania.                                           |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                  | 19. None.                                                              |
| 20. Whether the manufacture is sold by the manufacturer for cash? and, if on credit, at what credit? if bartered, for what?                                                                                                                                | 20. Generally at six months' credit.                                   |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. Decreased by improvement in machinery and competition.             |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                       | 22. In 1822, sold goods at \$1; the same quality in 1832, at 80 cents. |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                 | 23. Not less than the present duty.                                    |

## DOCUMENT 14.—No. 94—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Unable to say, as all was turned to the manufactory, since the commencement, in buildings and machinery. |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. Stock and materials, two-thirds; labor, one-third.                                                       |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. \$4,300 agricultural, \$250 other domestic articles.                                                     |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                       | 28. Unable to answer.                                                                                        |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29. Abandon the business altogether.                                                                         |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. Cannot determine at present.                                                                             |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                              | 31. Any other business in the world.                                                                         |

ANDREW MURPHY.

## DOCUMENT 14.—No. 95.

*Hamilton Arthurs' Woollen Manufactory, Alleghany County, West Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.                                  |
|-------------------------------------------------------------------------------------------------|-------------------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. State of Pennsylv'a, Alleghany county. |
| 2. Kind or description of the manufactory?                                                      | 2. Woollen; horse power.                  |
| 3. When established; and whether a joint stock concern?                                         | 3. 1814. Not a joint stock.               |
| 4. Capital invested in ground and buildings, and machinery?                                     | 4. \$2,000.                               |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 5. \$3,750, materials.                    |

## DOCUMENT 14.—No. 95—Continued.

| QUESTIONS.                                                                                                                            | ANSWERS.                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 7. Annual rate of profit on the capital invested?                                                                                     | 7. About 8 per cent.                                                   |
| 8. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 8. 1,700 yards.                                                        |
| 9. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 9. Domestic \$3,600; foreign \$150.                                    |
| 11. Number of men, women and children employed, and average wages of each class?                                                      | 11. Six men at \$13 per month.                                         |
| 12. How many hours a day employed; and what portion of the year?                                                                      | 12. 12 hours.                                                          |
| 13. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 13. 12 miles, at Pittsburgh.                                           |
| 14. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?            | 14. None but eastern goods of the same description.                    |
| 15. Where are the manufactures consumed?                                                                                              | 15. Western parts of United States.                                    |
| 16. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 16. No.                                                                |
| 17. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 17. Cash, generally.                                                   |
| 18. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                  | 18. Average price up to 1821, \$1 12½; since, and at present 75 cents. |
| 20. What has been the rate of your profits, annually, for the last three years?                                                       | 20. 4 per cent., or thereabouts.                                       |

HAMILTON ARTHURS.

## DOCUMENT 14.—No. 96.

*Woollen Manufactory, Fallston, Beaver County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Fallston, Beaver county, Pennsylvania.                                 |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Woollen manufactory; water power.                                      |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. In 1824. Individual.                                                   |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Eight thousand three hundred dollars.                                  |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. About fifteen thousand dollars.                                        |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. I ask ten per cent. per annum, but it has not been realized, averaged. |

## QUESTIONS.

8. Rates of profit on capital otherwise employed in the same State and county?

9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?

10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?

12. Number of men, women, and children employed, and average wages of each class?

13. How many hours a day employed, and what portion of the year?

14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?

16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?

18. Where are the manufactures consumed?

19. Whether any of the manufactures are exported to foreign countries? and, if so, where?

20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?

21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?

22. The prices at which the manufactures have been sold by the manufacturer since the establishment?

24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?

25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually?

## ANSWERS.

8. The profits may be compared with cotton and paper. The woollens, as made here and sold at wholesale, will not more than double the cost of wool, upon average. Cotton put into *yarn*, not colored, will treble. Paper, post, weighs  $7\frac{1}{2}$  lbs. \$3.25; No. two, writing,  $11\frac{1}{2}$  lbs. \$3. The labor and cost cannot be equal to manufacturing of wool, besides the cost of *coloring*.

9. About \$15,000. Cloth 6-4, satinets, flannels, and baize.

10. Wool from 20 to 50 cents per pound, alum 6, copperas 3, cotton yarn 18 to 30 cts. per pound, vitriolic acid 8 cents, domestic; indigo, Bengal, \$2; madder, crop. 25 cents; in all about nine thousand dollars.

12. Twelve men average \$16 per month, four women \$1 50 per week, seven boys at \$2 per week, and (some weavers not in the factory) board included.

13. From sunrise to sunset,  $1\frac{1}{2}$  hours off for meals; six months in the year; work until half past eight at night.

14. The wages at many other places given, being higher, frequently causes a change in the workmen very prejudicial to the manufactory here.

16. About one fourth bartered; mostly sent to Pittsburgh, 30 miles.

18. Mostly in the counties adjoining.

19. I think not.

20. Very small part; part on a credit of six and part on a credit of 12 months. Mostly bartered for merchandize.

21. It has increased, almost exclusively in the materials, particularly wool and madder. Could say provisions, the past year or two, makes the labor cost more.

22. Cloth 6-4 from \$1 50 to \$3 50 per yard; satinets from 63 cents to \$1 per yard; three-quarter wide flannel, madder red, 25 to 35 cts.; baize 5-4, green and red, 34 to 50 cts.

24. I saw cloth weaving and finishing in a manufactory in an eastern State; the wool had been colored, and I think spun into yarn in England, as the workmen informed me.

25. The profits of my manufactory are owing to other more lucrative business being connected with it, merchandizing, building and selling houses, &c.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                            | 26. About one-half of the price of material, and one-half of the wages of labor.                                                                                                                                                           |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                        | 27. I think near \$ 2,000; many more dependant on me for such than are directly in my employ.                                                                                                                                              |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. If such reduction made the business any worse it would.                                                                                                                                                                                |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. I think I should put it mostly at interest, or buildings to rent.                                                                                                                                                                      |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                           | 31. Divested of any other connexion but merely manufacturing and selling at one season, or one-quarter part of the year, woolen goods, I know of nothing worse.                                                                            |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                             | 32. I think they are, particularly salt; the latter I think is not affected by importation here.                                                                                                                                           |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                            | 33. Twenty-three thousand three hundred dollars.                                                                                                                                                                                           |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent., and how gradual the reduction should be?                                                                                               | 34. I do not know. I think no prudent person would invest money in so perishable and dangerous business, for six per cent per annum. Machinery is very expensive, and to dispose of after once used, it cannot be done without great loss. |
| 35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum?                                                        | These last six queries I cannot answer satisfactorily.                                                                                                                                                                                     |
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                                                                                                     |                                                                                                                                                                                                                                            |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                                                                             |                                                                                                                                                                                                                                            |
| 38. Extent of individual and household manufactures in the United States, and how much it has increased since the tariff of 1824?                                                                                                                                       |                                                                                                                                                                                                                                            |
| 39. Average profit of money or capital in the United States?                                                                                                                                                                                                            |                                                                                                                                                                                                                                            |
| 40. Average rate of wages?                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                            |

Respectfully,

A. W. TOWNSEND.

FALLSTON, 4th month 10th, 1832.

## DOCUMENT 14.—No. 97.

*Woollen Cloth Manufactory, Beaver County, West Pennsylvania.*

## QUESTIONS.

1. State and county in which the manufactory is situated?
2. Kind or description of the manufactory; and whether water, steam, or other power?
3. When established; and whether a joint stock concern?
4. Capital invested in ground and buildings, and water power, and in machinery?
6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed?
7. Cause of the increase, (or decrease, as the case may be,) of profit?
8. Rates of profit on capital otherwise employed in the same State and county?
9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?
10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?
12. Number of men, women, and children, employed; and average wages of each class?
13. How many hours a day employed, and what portion of the year?
15. Number of horses or other animals employed?
16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?
17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?
18. Where are the manufactures consumed?
19. Whether any of the manufactures are exported to foreign countries? and, if so, where?
20. Whether the manufacture is sold by the manufacturer for cash? and, if on credit, at what credit? if bartered, for what?
21. Whether the cost of the manufactured article (to the manufacturer,) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?
22. The prices at which the manufactures have been sold by the manufacturer since the establishment?

## ANSWERS.

1. Beaver county, State of Pennsylvania.
2. Woollen cloth manufactory. Water power.
3. In 1822. Individual concern.
4. About ten thousand dollars.
6. Capital has scarcely averaged six per cent.
7. Profit decreased, attributed to an increased foreign importation, and a rise in the price of domestic work.
8. Supposed to be greater than on woollen manufactures.
9. Satinets 3,000 yards, 75 cents per yard; 1,000 yards broad cloth at \$3 per yard; 3,000 yards flannel at 37½ cents per yard.
10. Wool 60 cents per pound, in 1831, 6,400 pounds; other materials imported, cost of them \$500, perhaps \$100 of home stuffs. These are principally dye stuffs.
12. Nine men, four boys, three girls.
13. Twelve hours per day throughout the year.
15. Four horses.
16. Generally sold in this county and its vicinity.
17. Compete with them, and do injury to a great extent.
18. Generally wherever sold or near to it.
19. Supposed to be none.
20. About equally divided between cash, credit, and trade.
21. Increased cost in 1831, about 30 per cent.
22. Increased about 10 per cent. since 1830; now decreasing.



| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. About 50 per cent. ad valorem duty.                                                                |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. Yes; the value of the imported article ascertained in this country, and the duty laid accordingly. |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. All tariff duties to be paid as soon as the article taxed arrives in the country.                  |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. One thousand dollars, or nearly.                                                                   |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29. Destroy the business; the only alternative would be agriculture.                                   |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent.; and how gradual the reduction should be?                                                                                                                                                                | 34. No reduction. The present duties do no more.                                                       |
| 35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum?                                                                                                                           | 35. About thirty per cent.                                                                             |
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                                                                                                                                                                        | 36. In a measure abolish the frauds.                                                                   |
| 39. Average profit of money or capital in the United States?                                                                                                                                                                                                                                                                               | 39. Perhaps not more than six per cent.                                                                |

MATTHEW ELDER.

## DOCUMENT 14.—No. 98.

*Woollen Manufactory, Bedford County, West Pennsylvania.*

| QUESTIONS.                                                | ANSWERS.                         |
|-----------------------------------------------------------|----------------------------------|
| 1. State and county in which the manufactory is situated? | 1. Pennsylvania, Bedford county. |
| 2. Kind or description of the manufactory?                | 2. Woollen.                      |
| 3. Capital invested in ground and buildings?              | 3. Eight thousand dollars.       |

## DOCUMENT 14.—No. 98—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6. Causes of the increase (or decrease, as the case may be,) of profit?                                                                    | 6. Foreign competition cause a decrease of profit.                                                                                                                                    |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. One thousand and fifty-three yards, viz. 330 yards broadcloth, at \$4; 345 yards satinet, at 70 cts. to \$1; 143 yards blankets, at \$1; and 235 yards flannel, at 60 to 70 cents. |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. Men 2, women 2, boys 2; average wages \$11 20 per month.                                                                                                                          |
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. Ten hours per day, five months in the year.                                                                                                                                       |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. At the manufactory.                                                                                                                                                               |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 13. Foreign articles do enter into competition sufficient almost to extinguish the domestic one.                                                                                      |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the neighborhood.                                                                                                                                                              |
| 15. Whether any of the manufactures are exported to foreign countries? And if so, where?                                                   | 15. None exported.                                                                                                                                                                    |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Cash and country produce.                                                                                                                                                         |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. The tariff of 1828.                                                                                                                                                               |

JOHN LUTZ, *Manufacturer.*

## DOCUMENT 14.—No. 99.

*Woollen Manufactory, Bedford County, Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Pennsylvania, Bedford county.                                                                                              |
| 2. Kind or description of the manufactory?                                                                                            | 2. Woollen.                                                                                                                            |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Nine hundred and fifty dollars.                                                                                                     |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Two hundred and seventy dollars.                                                                                                    |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                               | 6. A small increase in consequence of the tariff of 1828.                                                                              |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Three hundred and sixty yards cloth, 75 a 85 cents per yard; two hundred and forty-five yards satinet, at 70 and 80 cents per yard. |
| 10. Number of men, women and children employed, and average wages of each class?                                                      | 10. Two men and two boys; average \$16 per month.                                                                                      |

## DOCUMENT 14.—No. 99—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. Nine hours per day, and four months in the year.                                               |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. At the factory.                                                                                |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 13. Foreign articles do enter almost sufficient to cause the domestic one to abandon the business. |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the immediate neighborhood.                                                                 |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. None exported.                                                                                 |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? it bartered, for what?                 | 16. Sold for cash and raw material, and country produce.                                           |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. The duty at present is not sufficient.                                                         |

ABRAHAM KEAGY.

## DOCUMENT 14.—No. 100.

*Woollen Manufactory, Centre County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                          | ANSWERS.                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| 1. State, and county in which the manufactory is situated?                                                                                                                                                                                                                                          | 1. Pennsylvania, Centre county.                                    |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                                                                                                                                                                                | 2. Woollen manufactory. Water power.                               |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                             | 3. Commenced in 1823. Individual concern.                          |
| 4. Capital invested in ground and buildings, and water power and in machinery?                                                                                                                                                                                                                      | 4. Three thousand dollars.                                         |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                     | 5. One thousand dollars.                                           |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. About \$500 since established.                                  |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                             | 7. By good work done.                                              |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                      | 8. One hundred dollars.                                            |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                               | 9. Cloth, satinets, flannels, and blankets, \$5,000, more or less. |

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                         | 10. Quantity, 7,000 pounds wool, value \$2,800. Domestic.      |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                         | 11. Nothing imported but about \$100.                          |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                       | 12. 8 men, 2 women, 50 cents per day: not constantly employed. |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                        | 13. 12 hours per day at an average.                            |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                         | 15. 2 horses part of the time employed.                        |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                               | 16. Sold at home.                                              |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                              | 17. Foreign articles sold at the same place.                   |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                | 18. Centre county.                                             |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                | 19. None.                                                      |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                              | 20. Some for cash, &c.                                         |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?              | 21. Some increase.                                             |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                    | 22. Prices about the same.                                     |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                              | 23. The rates as they are now established by law.              |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                        | 24. No change necessary only for the better.                   |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Quit the business if reduced.                              |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. Go to making rails.                                        |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                           | 31. I don't know.                                              |
| 33. Amount of capital, and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                            | 33. \$5,000. Borrowed \$800.                                   |

## DOCUMENT 14.—No. 100—Continued.

| QUESTIONS.                                                                                                                                                                 | ANSWERS.                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent., and how gradual the reduction shall be? | 34. If any reduction takes place we are destroyed. |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                | 37. We sell all we manufacture.                    |
| 38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?                                           | 38. It has greatly increased.                      |

HENRY HUBBLER

## DOCUMENT 14.—No. 101.

*Woollen Manufactory, Centre County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                            | ANSWERS.                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                             | 1. Centre county, Pennsylvania.                                                                                                                                                                                                                                                             |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                  | 2. Woollen manufactory. Water power.                                                                                                                                                                                                                                                        |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                               | 3. Established in 1829. Joint stock concern.                                                                                                                                                                                                                                                |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                       | 4. Five thousand dollars.                                                                                                                                                                                                                                                                   |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                       | 5. Four thousand dollars.                                                                                                                                                                                                                                                                   |
| 6. Annual rate of profit on the capital invested, since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. One thousand dollars.                                                                                                                                                                                                                                                                    |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                 | 9. 3,000 yds. satinets, averaging 80 cents per yard - 2,400<br>1,000 do cloth, $\frac{1}{2}$ yd. wide, at \$1 - 1,000<br>100 do flannel, at 60 c. per yard - 600<br>500 do blankets at 80 cents - 400<br>500 do flannel, at 50 cents - 250<br><div style="text-align: right;">\$4,650</div> |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                       | 10. 4,000 lbs. wool, at from 40 to 50 cents per pound; coloring materials, &c. \$400.                                                                                                                                                                                                       |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                     | 12. 8 men, at 75 cents; 4 boys, at 37½ cts.                                                                                                                                                                                                                                                 |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                      | 13. 12 hours per day; 9 months.                                                                                                                                                                                                                                                             |

DOCUMENT 101—No. 31.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. Two horses.                                                     |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. Market within 5 miles.                                          |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                                                                 | 17. Foreign articles do enter into competition to a great extent.   |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. Principally at the iron works.                                  |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                                                                   | 19. There are none exported to foreign countries.                   |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. When sold on credit, for six months, when bartered, for iron.   |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. Articles sold in 1829 at 70 cents, are now selling at 80 cents. |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Our profits have averaged for the last three years \$600.       |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. Cost of raw materials about \$2,000.                            |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. Six hundred dollars.                                            |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29. We would abandon our business.                                  |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                              | 31. Yes, we could employ our capital, and derive greater profits.   |

EPHRAIM WILLIAMS.

## DOCUMENT 14.—No. 102.

*Woollen Manufactory, Centre County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Pennsylvania, Centre county.                                                                  |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Woollen manufactory; water power.                                                             |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Commenced in 1824. Individual concern.                                                        |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Eighteen hundred dollars.                                                                     |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                                                     | 5. Six hundred and fifty dollars.                                                                |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. About 100 dollars per year increase since established.                                        |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. Cloth, cassinets, flannels, and blankets, worth 3,000 dollars; common quality wool materials. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. Quantity, 4,500 lbs. wool, value 1,500 dollars; all domestic.                                |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. Nothing imported but about 12 dollars per annum.                                             |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                                                                     | 12. 3 men, 1 boy, 1 girl, at 50 cents per day; not constantly employed.                          |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                     | 13. 7 hours at an average per day.                                                               |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. 1 horse part of the time employed.                                                           |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. Sold at home.                                                                                |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                           | 17. Foreign articles sold at the same places.                                                    |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. In Centre county.                                                                            |
| 19. Whether any of the manufactures are exported to foreign countries? And if so, where?                                                                                                                                                                                                             | 19. None.                                                                                        |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                           | 20. Some for cash, and some for other trade, &c.                                                 |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                           | 21. Some little increased.                                                                       |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                 | 22. Prices about the same.                                                                       |

## DOCUMENT 14.—No. 102—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                             | ANSWERS.                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                             | 23. The rates as they are now established by law:            |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                       | 24. No change necessary. We are content.                     |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent, with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Quit the business if reduced.                            |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                         | 30. Go to grubbing.                                          |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent?                                                                                                           | 31. That I cannot tell until a trial.                        |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                           | 33. 3,000 dollars. None borrowed.                            |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; and how gradual the reduction shall be?                                                                                               | 34. If any reduction takes place, we are destroyed.          |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                                                                            | 37. We sell all we manufacture.                              |
| 38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?                                                                                                                                       | 38. It has greatly increased, but cannot say to what extent. |
| 39. Average profit of money or capital in the United States?                                                                                                                                                                                                           | 39. I can give no satisfactory answer to the last question.  |

JACOB HAUSER.



## DOCUMENT 14.—No. 103.

*Manufactures, Crawford County, West Pennsylvania.*

|                                                   | Cost.           | Materials<br>& wages. | Amount<br>made.                                | Remarks.                                                                        |
|---------------------------------------------------|-----------------|-----------------------|------------------------------------------------|---------------------------------------------------------------------------------|
| <b>Paper Mill.</b>                                |                 |                       |                                                |                                                                                 |
| William Magaw -                                   | \$16,000        | \$3,122               | 9,200 rns.                                     | 92 tons straw, at \$5, and 22,000 lbs. salts of lye, at 3 cents 8 men, 3 girls. |
| <b>Iron Foundry.</b>                              |                 |                       |                                                |                                                                                 |
| Jackson and Wolf -                                | 5,000           | 11,000                | \$14,000 w                                     | orth of castings, at 5 cts. per pound. 12 men.                                  |
| <b>Fulling Mills.</b>                             |                 |                       |                                                |                                                                                 |
| L. G. Burchard -                                  | 1,500           | 200                   | 3,000 yds.                                     | Two men half the year.                                                          |
| David Dewey -                                     | 1,000           | 200                   | 3,000                                          | Two men.                                                                        |
| Lot Lewis -                                       | 1,500           | 200                   | 4,500                                          | Two do                                                                          |
| James Dickson -                                   | 1,000           | 200                   | 3,000                                          | Two do                                                                          |
| Thomas Logan -                                    | 800             | 200                   | 2,500                                          | Two do                                                                          |
| Frederick Hickernell -                            | 700             | 200                   | 2,500                                          | Two do                                                                          |
| David Herd -                                      | 700             | 200                   | 2,500                                          | Two do                                                                          |
| Collins Hall -                                    | 500             | 200                   | 2,000                                          | Two do                                                                          |
| J. Tryan -                                        | 300             | 200                   | 1,500                                          | Two do                                                                          |
| William Andrews -                                 | 300             | 200                   | 1,500                                          | Two do                                                                          |
|                                                   | \$8,300         | 2,000                 | 28,000 yds.                                    | Twenty men.                                                                     |
| <b>Black salts and salts of lye manufactured.</b> |                 |                       |                                                |                                                                                 |
| William Powers -                                  | -               | -                     | 30 tons per annum, \$60 per ton.               |                                                                                 |
| David Dick -                                      | -               | -                     | 30 tons \$60, pearl ashes, &c., total \$3,500. |                                                                                 |
| Robert Stewart -                                  | -               | -                     | 10 do \$60                                     |                                                                                 |
| <b>Leather manufactures.</b>                      |                 |                       |                                                |                                                                                 |
| Kennedy Davis -                                   | 2,200           | 2,000                 | \$3,500                                        | Three men, 3 boys.                                                              |
| John Clark -                                      | 1,200           | 1,600                 | 2,000                                          | Two men, 1 boy.                                                                 |
| Roderick Frazier -                                | 1,000           | 1,500                 | 2,000                                          | Two men, 1 boy.                                                                 |
| Whites -                                          | 1,200           | 1,500                 | 2,000                                          | Two men, 1 boy.                                                                 |
| John Brown -                                      | 1,200           | 1,600                 | 2,000                                          | Two men, 1 boy.                                                                 |
| Daniel Bennet -                                   | 1,000           | 1,500                 | 2,000                                          | Two men, 1 boy.                                                                 |
| Obed Bradley -                                    | 1,000           | 1,500                 | 2,000                                          | Two men, 1 boy.                                                                 |
| William Henry -                                   | 1,000           | 1,600                 | 2,500                                          | Two men, 1 boy.                                                                 |
| Henry Stratton -                                  | 1,200           | 1,600                 | 2,000                                          | Two men, 1 boy.                                                                 |
| John McGuire -                                    | 800             | 600                   | 1,200                                          | Two men.                                                                        |
| Daniel Brown -                                    | 800             | 600                   | 1,200                                          | Two do                                                                          |
| Joseph Gehr, jr. -                                | 500             | 500                   | 1,000                                          | Two do                                                                          |
| Robert Williamson -                               | 500             | 500                   | 1,000                                          | Two do                                                                          |
| John McQuiston -                                  | 400             | 400                   | 800                                            |                                                                                 |
| Clarkson Freeman -                                | 200             | 150                   | 300                                            | One do                                                                          |
| Samuel (ulbertson) -                              | 300             | 150                   | 300                                            | One do                                                                          |
| Robert Young -                                    | 200             | 150                   | 200                                            | One do                                                                          |
| Daniel Dunham -                                   | 1,000           | 1,500                 | 2,000                                          | Two do                                                                          |
| Alexander Elliott -                               | 300             | 500                   | 1,000                                          | One do., 1 boy.                                                                 |
| <b>Amount</b>                                     | <b>\$16,000</b> | <b>19,450</b>         | <b>\$29,000</b>                                | <b>Total 33 men, 12 boys.</b>                                                   |

## DOCUMENT 14.—No. 103—Continued.

|                                             | Cost. | Materials<br>& wages. | Amount<br>made. | Remarks.                                         |
|---------------------------------------------|-------|-----------------------|-----------------|--------------------------------------------------|
| <b>Saddles, &amp;c. manufac-<br/>tured.</b> |       |                       |                 |                                                  |
| Robert Adrain -                             | -     | \$800                 | \$1,600         | Three hands.                                     |
| David M. Douglass -                         | -     | 450                   | 900             | Two do                                           |
| James Freeman -                             | -     | 200                   | 400             | One do                                           |
| — Mosher -                                  | -     | 150                   | 300             | One do                                           |
| William Cochran -                           | -     | 100                   | 200             | One do                                           |
| -                                           | -     | 1,700                 | \$3,400         | Total 8 men.                                     |
| <b>Boots and shoes.</b>                     |       |                       |                 |                                                  |
| William Johnson -                           | -     | -                     | 2,000           |                                                  |
| Isaac Williams -                            | -     | -                     | 1,500           |                                                  |
| Samuel Harrown -                            | -     | -                     | 1,000           |                                                  |
| Isaac Fowler -                              | -     | -                     | 800             |                                                  |
| James Carman -                              | -     | -                     | 800             |                                                  |
| Joseph P. Painter -                         | -     | -                     | 1,000           |                                                  |
| James McNamara -                            | -     | -                     | 800             |                                                  |
| John Winket -                               | -     | -                     | 400             |                                                  |
| S. Freeland -                               | -     | -                     | 300             |                                                  |
| H. Stratton -                               | -     | -                     | 400             |                                                  |
| Mc E. Leese -                               | -     | -                     | 300             |                                                  |
| — Holland -                                 | -     | -                     | 300             |                                                  |
| — Royer -                                   | -     | -                     | 300             |                                                  |
| L. Woods -                                  | -     | -                     | 300             |                                                  |
| J. Dunn -                                   | -     | -                     | 200             |                                                  |
| G. Huffman -                                | -     | -                     | 400             |                                                  |
| Amount of value -                           | -     | -                     | \$10,800        | Materials one half, \$5,400. Men<br>employed 27. |
| <b>Hats made.</b>                           |       |                       |                 |                                                  |
| William Hill -                              | -     | 2,000                 | 4,000           | Five men.                                        |
| Robert McCurdy -                            | -     | 2,000                 | 4,000           | Five do                                          |
| John McFadden -                             | -     | 500                   | 1,000           | Two do                                           |
| Hitchcock and Moor -                        | -     | 700                   | 1,500           | Two do                                           |
| John Latta -                                | -     | 400                   | 800             | Two do                                           |
| Amos Benedict -                             | -     | 200                   | 400             | One do                                           |
| Amount of value -                           | -     | \$5,800               | \$11,700        | Total 17 men.                                    |

## DOCUMENT 14.—No. 104.

*David Dewey's Woollen Manufactory, Crawford County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Crawford county, Pennsylvania.                               |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Woollen manufactory.                                         |
| 3. Capital invested in ground and buildings?                                                                                               | 3. \$1,000.                                                     |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. \$200.                                                       |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. 33 per cent.                                                 |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                    | 6. Stationary.                                                  |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. 3,000 yards; $\frac{2}{3}$ cloth, $\frac{1}{3}$ flannel.     |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. Dye stuffs, foreign, \$25; domestic copers, soap, &c., \$25. |
| 10. Number of men, women and children employed, and average wages of each class?                                                           | 10. Two men, \$17 per month.                                    |
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. 14 hours, 7 months of the year.                             |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the vicinity.                                            |
| 15. Whether any of the manufactures are exported to foreign countries? And if so, where?                                                   | 15. None exported.                                              |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Cloth \$1, flannels 75 cents.                               |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. Duties should not be reduced.                               |

## DOCUMENT 14.—No. 105.

*L. G. Burchard's Woollen Manufactory, Crawford County, West Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.                          |
|-------------------------------------------------------------------------------------------------|-----------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Crawford county, Pennsylvania. |
| 2. Kind or description of the manufactory?                                                      | 2. Woollen.                       |
| 3. Capital invested in ground and buildings.                                                    | 3. \$1,500.                       |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 4. \$200.                         |

## DOCUMENT 14.—No. 105—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. 33 per cent.                                                  |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                    | 6. Stationary.                                                   |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. 3,000 yards; $\frac{1}{2}$ cloth and $\frac{1}{2}$ flannel.   |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. Dye stuffs, foreign, \$25; domestic coppers, soap, &c., \$25. |
| 10. Number of men, women and children employed, and average wages of each class?                                                           | 10. Two men, \$17 per month.                                     |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. 14 hours, 7 months in the year.                              |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the vicinity.                                             |
| 15. Whether any of the manufactures are exported to foreign countries? And if so, where?                                                   | 15. None exported.                                               |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Cloth \$1, flannels 75 cents.                                |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. Duties should not be reduced.                                |

## DOCUMENT 14.—No. 106.

*Woollen Manufactory, Columbia County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                          |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Pennsylvania, Columbia county. |
| 2. Kind or description of the manufactory?                                                                                            | 2. Woollen; water power.          |
| 3. Capital invested in ground and buildings?                                                                                          | 3. 6,000 or \$7,000.              |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. \$4,000.                       |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. About \$5,000 in cloth.        |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. Twelve men and women.         |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. Sold within 40 miles.         |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?            | 13. No.                           |

## DOCUMENT 14.—No. 106—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. The present duty should be increased 20 per cent. |
| 21. Average rate of wages?                                                                                                                 | 21. Men \$20 per month, women \$8 per month.          |

SAMUEL MILLARD.

## DOCUMENT 14.—No. 107.

*Woollen Manufactory, Columbia County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Pennsylvania, Columbia county.                                          |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Woollen. Water power.                                                   |
| 3. Capital invested in ground and buildings?                                                                                               | 3. Seven thousand three hundred dollars.                                   |
| 4. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                           | 4. Four thousand three hundred and fifty dollars.                          |
| 6. Causes of the increase (or decrease, as the case may be) of profit?                                                                     | 6. Scarcity of wool and competition of foreign goods.                      |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. About \$ 5,430.                                                         |
| 10. Number of men, women and children employed, and average wages of each class?                                                           | 10. Eight men at \$ 22 per month.                                          |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. The present rate of duties, and strict attention in the custom-houses. |

BENJAMIN EVES.

## DOCUMENT 14.—No. 108.

*Woollen Manufactory, Columbia County, West Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.                          |
|-------------------------------------------------------------------------------------------------|-----------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Pennsylvania, Columbia county. |
| 2. Kind or description of the manufactory?                                                      | 2. Woollen. Water power.          |
| 3. Capital invested in ground and buildings?                                                    | 3. About \$ 6,000.                |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 4. About \$ 3,150.                |

## DOCUMENT 14.—No. 107—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                    | 6. Want of sufficient protection.                   |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. \$ 3,356.                                        |
| 9. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                             | 9. Imported from England; cost about the same.      |
| 10. Number of men, women and children, employed, and average wages of each class?                                                          | 10. Three men at \$22 per month; six women at \$10. |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. Mostly sent about 70 miles.                     |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                 | 13. They do to a considerable extent.               |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                  | 15. Nonc.                                           |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. For cash and iron.                              |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. Something more than the present tariff.         |

DANIEL MONTGOMERY.

## DOCUMENT 14.—No. 109.

*Woollen Factory, Columbia County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Pennsylvania, Columbia county. |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Water.                         |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. 1821.                          |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Fifteen hundred dollars.       |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. Five hundred dollars.          |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. Six per cent.                  |

## DOCUMENT 14.—No. 109—Continued.

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. \$1,000 coarse quality; 2,000 yards cloth and satinet, value 75 cents per yard. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?       | 10. Two thousand pounds of wool, domestic, value 37½ cents.                        |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                       | 11. About the same.                                                                |
| 15. Number of horses or other animals employed?                                                                                       | 15. None.                                                                          |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 16. At the manufactory.                                                            |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?            | 17. They do.                                                                       |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 19. None.                                                                          |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 20. Some cash, some barter.                                                        |

The principal article of manufacture to two years past has been carpeting; the competition with foreign article has been such as to reduce the profits to about five per cent.

ISAAC HART.

## DOCUMENT 14.—No. 110.

*Woollen Factory, Columbia County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Pennsylvania, Columbia county.                                                                             |
| 2. Kind or description of the manufactory?                                                                                            | 2. A woollen factory; water power.                                                                            |
| 3. Capital invested in ground and buildings?                                                                                          | 3. \$3,000.                                                                                                   |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. \$600.                                                                                                     |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Five per cent.                                                                                             |
| 6. Cause of the increase (or decrease, as the case may be) of profit?                                                                 | 6. Competition of foreign cloths, &c.                                                                         |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Two hundred yards cloth and 600 yards satinet; good quality cloth \$4 per yard; satinet 70 cents per yard. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. About 600 lbs. wool, at 40 cents per lb.                                                                   |

## DOCUMENT 14.—No. 110—Continued.

| QUESTIONS.                                                                                                                 | ANSWERS.                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 9. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?             | 9. They sell at about the same prices as above.                                                        |
| 10. Number of men, women, and children employed, and average wages of each class?                                          | 10. Two men, one woman, two children; men \$12 per month, women \$6 per month, children \$3 per month. |
| 11. How many hours a day employed, and what portion of the year?                                                           | 11. Fourteen hours per day; 9 months per year.                                                         |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                  | 12. Generally at the manufactory.                                                                      |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent? | 13. They do to a great extent.                                                                         |
| 14. Where are the manufactures consumed?                                                                                   | 14. In the neighborhood.                                                                               |
| 15. Whether any of the manufactures are exported to foreign countries? If so, where?                                       | 15. They are not.                                                                                      |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what? | 16. For cash and country produce.                                                                      |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                       | 17. Only a few years in operation.                                                                     |

MARGARET MONTGOMERY.

## DOCUMENT 14.—No. 111.

*Wool and Cotton Factory, Erie County, West Pennsylvania.*

| QUESTIONS.                                                                                                                      | ANSWERS.                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                       | 1. Erie county, State of Pennsylvania.                                                                                                                                                                  |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                            | 2. Ninety spindles and one loom, attached to a common clothiers' shop; water power.                                                                                                                     |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                 | 4. Capital in ground, buildings, water power, and machinery, \$2,500.                                                                                                                                   |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                 | 5. The wool manufactured is principally furnished by others, and brought to the mill for manufacture. The annual amount of cloth, which is wholly or in part manufactured and finished, is about \$600. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products? | 10. The materials are principally of American production; say about three-fourths.                                                                                                                      |
| 12. Number of men, women and children employed, and average wages of each class?                                                | The number of persons employed is two, the whole year; the amount of wages given is \$15 per month, each man.                                                                                           |
| 13. How many hours a day employed; and what portion of the year?                                                                |                                                                                                                                                                                                         |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?      | 17. Foreign wool does not enter into competition with the domestic wool here; but foreign cloths of a similar kind do enter into competition.                                                           |



## DOCUMENT 14.—No. 111—Continued.

| QUESTIONS.                                                                                                                                                                | ANSWERS.                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 18. Where are the manufactures consumed?                                                                                                                                  | 18. The articles manufactured are consumed within the county.                             |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; and how gradual the reduction should be? | 34. I do not think that any reduction of duties could be made under the market of cloths. |

GEORGE HILL.

## DOCUMENT 14.—No. 112.

*Woollen Manufactory, Erie County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Erie, Pennsylvania.                    |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Woollen; water power.                  |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. 1831; individual.                      |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Twenty hundred dollars.                |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages.                                                                                                                                                                                                      | 5. Seven hundred dollars.                 |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between, the rate of profit upon that portion of the capital which is borrowed after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. Less than five per cent.               |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. 5 per cent. better.                    |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. Cloths and satinets, middling quality. |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. 4 men, \$15; 4 boys, \$4.             |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                     | 13. Three-quarters of the year.           |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. Home.                                 |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                           | 17. Extensively.                          |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                             | 19. No.                                   |

DOCUMENT 14.—No. 113.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                              | 20. Barter.                            |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?             | 21. Increase in materials 25 per cent. |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                    | 22. From 50 to 75 cents.               |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                            | 26. Want of time prevents particulars. |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Abandon business.                  |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. Agriculture or mercantile.         |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profit even after a reduction of the import duties to 12½ per cent.?                                                                                                            | 31. Yes.                               |

JAMES INNIS.

DOCUMENT 14.—No. 113.

*Woollen Manufactory, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.                                                                |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Fayette county, Pennsylvania.                                        |
| 2. Kind or description of the manufactory?                                                      | 2. Woollen manufactory.                                                 |
| 3. Capital invested in ground and buildings?                                                    | 3. Two thousand dollars.                                                |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 4. Fifteen hundred dollars worth in wool and dye stuff.                 |
| 5. Annual rate of profit on the capital invested?                                               | 5. Not exceeding three hundred dollars.                                 |
| 6. Cause of the increase (or decrease, as the case may be,) of profit?                          | 6. Increase of tariff will increase profit; a decrease will destroy it. |

## DOCUMENT 14.—No. 113—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. Two thousand yards of cassinet, cloth, flannel blankets.                                                 |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. Three men and two children; wages for men, \$195 each per year; two children, 52 dollars each per year. |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. Ten hours each day the year round.                                                                      |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. At the manufactory and its vicinity, and Pittsburgh.                                                    |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 13. Cloths, cassinets, and blankets enter into competition.                                                 |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the United States.                                                                                   |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. The present rate of duty.                                                                               |

ELLIS STEVENSON.

## DOCUMENT 14.—No. 114.

*Report of James Willing's Woollen Manufactory, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Fayette county, Pennsylvania.                                    |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Water power; woollen manufactory.                                |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. 1831.                                                            |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. \$3,000.                                                         |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. \$1,600.                                                         |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. The capital borrowed, \$400 per annum; \$300 per annum of stock. |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. \$4,000—coarse broadcloths and satinetts.                        |

## DOCUMENT 14.—No. 114—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| 12. Number of men, women, and children, employed, and average wages of each class?                                                                                                                                                                                      | 12. 6 men at \$20 per month, and 4 girls at \$4 per month. |
| 13. How many hours a day employed, and what portion of the year.                                                                                                                                                                                                        | 13. 12 hours per day all the year.                         |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                               | 16. 36 miles; Pittsburgh.                                  |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                | 18. Pittsburgh.                                            |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                              | 20. Cash; 3 and 6 months' credit.                          |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?              | 21. Decreased.                                             |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. To abandon the business.                               |
| 39. Average profit of money or capital in the United States?                                                                                                                                                                                                            | 39. \$15 per month.                                        |

The above is the statement of Redstone Factory. April 14, 1832.

JAMES WILLING.

## DOCUMENT 14.—No. 115.

*Report of Brackin and Rogers' Woollen Factory, Fayette County, Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Pennsylvania, Fayette county.                                                              |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                  | 2. Woollen factory, water and steam power.                                                    |
| 3. When established; and whether a joint stock concern?                                                                               | 3. Established in 1828; joint stock.                                                          |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                       | 4. \$3,500.                                                                                   |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. \$3,100.                                                                                   |
| 7. Cause of the increase (or decrease, as the case may be,) of profit?                                                                | 7. Decrease for profit in 1831; cause high prices of wool.                                    |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. \$3,300, 1,600 broad cloths; 1,000 casinetts; 700 flannels; generally of the coarser kind. |

## DOCUMENT 14.—No. 115—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                         | 10. About \$1,723 worth of raw material domestic.                                          |
| 12. Number of men, women, and children, employed, and average wages of each class?                                                                                                                                                                                      | 12. 7 men, \$15 per month; 3 boys, 75 cts. per week.                                       |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                        | 13. 12 hours, all the year.                                                                |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                               | 16. Principally sold in the neighborhood of the factory.                                   |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                              | 17. Foreign articles of the first quality furnished lower than we can afford to make them. |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what? if bartered, for what?                                                                                                                                                     | 20. Principally bartered for raw materials and other produce.                              |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. If the business should get any worse than it now is, we should abandon it altogether.  |

AMITY MILLS FACTORY, April 16, 1832.

BRACKIN &amp; ROGERS.

## DOCUMENT 14.—No. 116.

*Woollen Manufactory, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Pennsylvania, Fayette county.                                                                                                                   |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Woollen manufactory; water power.                                                                                                               |
| 3. When established, and whether a joint stock concern?                                                                               | 3. 1830; a joint stock concern.                                                                                                                    |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                       | 4. 9,000 dollars.                                                                                                                                  |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                      | 5. \$15,200 whole amount; one-half cash for wool, dye stuffs, labor, &c.; balance changed for goods, provisions, &c.                               |
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                 | 7. The profit depends upon the price of wool, and amount of foreign cloth brought in.                                                              |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                        | 8. From 10 to 25 per cent.                                                                                                                         |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. 5,364 yards broadcloth from \$1 50 to \$5 50 per yd. \$12,532 41<br>6,577 yds. satinet from 60 cts. to 95 cts. per yard 4,558 31<br>\$17,090 71 |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                                                                                                                                                                                                            | <p>10. 20,000 lbs. wool, the growth of this neighborhood, worth \$6,000 00</p> <p>Teasels and woad, domestic, 250 00</p> <p>Foreign products, 1,000 00</p> <p style="text-align: right;">\$7,250 00</p>                       |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                                                                                                           | 12. 18 men, averaging \$19 per month; 7 boys at \$8 50; 10 girls at \$6; superintendent and clerk at \$900 per annum.                                                                                                         |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                                                           | 13. About 11½ hours per day; 11 months in the year.                                                                                                                                                                           |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                                                           | 14. \$18 per month in this county.                                                                                                                                                                                            |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. None.                                                                                                                                                                                                                     |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. Market at Pittsburgh, 45 miles distant, and at Philadelphia, 300 miles.                                                                                                                                                   |
| 19. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. In the country.                                                                                                                                                                                                           |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                                                                   | 19. They are not exported to foreign countries?                                                                                                                                                                               |
| 20. Whether the manufacture is sold by the manufacturer for cash; and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Generally sold on a credit of 6 to 9 months abroad; but that sold at the manufactory is principally in exchange for produce of the farmer.                                                                                |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                 | 21. The cost of the manufactured article has increased in the last year about twenty per cent. in wool, dye stuff, and oil; labor about the same as former years.                                                             |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. Broadcloths from \$1 50 to \$5 per yd.; flannels from 30 to 45 cents.; satinets from 55 cts. to \$1 40 per yard.                                                                                                          |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. The present protection is sufficient, if made effective by appraising foreign goods when brought into our parts, without any reference to foreign invoices.                                                               |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. We have as yet, declared no dividend, having a large stock on hand, but suppose our profits to be about 12½ per cent.; but if woollen goods continue to depreciate, as they are doing at this time, we shall surely lose. |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. Wool and dye stuffs, for the last year, was about 60 per cent. on the whole cost.                                                                                                                                         |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per ct., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                      | 29. It certainly would cause us to abandon the business.                                                                                                                                                                      |

## DOCUMENT 14.—No. 117.

*Woollen Manufactory, Green County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Clarksville, Green county, Pennsylvania.                                                                                                                                                                                     |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Woollen factory; water power.                                                                                                                                                                                                |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. About the year 1812, and a joint stock concern.                                                                                                                                                                              |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. About 8,000 dollars.                                                                                                                                                                                                         |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                                                     | 5. At this time a great part of the wool is worked on shares; some little purchased.                                                                                                                                            |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. The original stockholders and manufacturers were broken up by carrying it on, and has been a dead loss since its erection.                                                                                                   |
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                                | 7. Decreased by the British manufacturers flooding in after the peace, and, in some measure, by want of knowledge in carrying it on.                                                                                            |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Have no correct idea.                                                                                                                                                                                                        |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. What has formerly been made annually we cannot tell. We manufacture annually about 5,000 lbs. wool, made into flannel, broadcloths, cassinets, &c.; say 2,000 yards broadcloth, 600 yards cassinet, and 1,000 yards flannel. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. There is 5,000 lbs. wool used, all domestic production.                                                                                                                                                                     |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. We are not prepared to give a correct answer.                                                                                                                                                                               |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. About 5 men, 5 women, and 8 children; little wages given; work done by the persons composing the company.                                                                                                                   |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                     | 13. Ten hours per day; eight months in the year.                                                                                                                                                                                |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 14. Do not know.                                                                                                                                                                                                                |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. None.                                                                                                                                                                                                                       |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. Sold at the factory, and at Pittsburgh, Pennsylvania.                                                                                                                                                                       |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                           | 17. They do to considerable extent.                                                                                                                                                                                             |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. Principally in the southwestern part of Pennsylvania.                                                                                                                                                                       |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                                                            | 19. None.                                                                                                                                                                                                                       |

## DOCUMENT 14.—No. 117—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Part cash, part for wool, part credit of six months, and part produce.                                                                                                                                                                                                                                       |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                | 21. It has increased and decreased from a variety of causes, which we, with justice, cannot sufficiently define.                                                                                                                                                                                                 |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. Former prices we cannot give. For the last four years our broadcloths have averaged us two dollars and fifty cents per yard; flannels, red, 33 to 45 cents per yard; cassinets 60 to 75 cents.                                                                                                               |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. The present duty, if collected, would be adequate to protection; and manufacturers of wool would flourish if there was stability in the tariff already imposed, whereby the capitalists could make investments which would be permanent, and not subject to fluctuation and continual changes in the system. |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. We can devise no plan for the collection of revenue better than the existing laws.                                                                                                                                                                                                                           |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. We are all workers. The profits maintain us. We have little to divide.                                                                                                                                                                                                                                       |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. Not working altogether our own materials, we are not able to give correct answers to this query.                                                                                                                                                                                                             |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. We cannot ascertain.                                                                                                                                                                                                                                                                                         |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                       | 28. Do not know.                                                                                                                                                                                                                                                                                                 |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29. At the present duty, we can make out to live. If reduced to 12½ per cent., it is very doubtful; but we are acquainted with this business, and could do better at it than at other business at the present tariff.                                                                                            |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. We cannot tell.                                                                                                                                                                                                                                                                                              |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                              | 31. We believe any other pursuit would be better.                                                                                                                                                                                                                                                                |



## DOCUMENT 14.—No. 118.

*Woollens Manufactory, Huntingdon County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Pennsylvania, Huntingdon county.                                                                                                                                                                                           |
| 2. Kind or description of the manufactory?                                                                                                 | 2. 1 fulling apparatus and carding machine.                                                                                                                                                                                   |
| 3. Capital invested in ground and buildings?                                                                                               | 3. 2,000 dollars.                                                                                                                                                                                                             |
| 4. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                           | 4. For dye stuffs, press papers, cards, soap and candles, \$200; that is the average amount of them. I have to give cash for all of the abovementioned articles, except soap and capital.                                     |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. Clear 350 dollars annually.                                                                                                                                                                                                |
| 6. Cause of the increase (or decrease, as the case may be) of profit?                                                                      | 6. Because merchants opposing with imported goods.                                                                                                                                                                            |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. Until 1821 I have manufactured 3,500 lbs. of wool annually. Manufacture cloth, flannel, blankets, linsey, cassinet, &c.; cloth from \$1 to \$2; cassinet from \$1 to \$2 25; flannel from 75 to 90 cents; linsey 90 cents. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. Domestic, 3,500 lbs. at 40 cts. per lb.; foreign articles about \$100.                                                                                                                                                     |
| 9. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                             | 9. The cassinets I could buy 25 per cent cheaper than to manufacture them; cloth about the same rate; flannels and linsey the same.                                                                                           |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. I have but myself and a boy; cash too scarce to hire.                                                                                                                                                                     |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. Sixteen hours; sometimes day and night; all the year.                                                                                                                                                                     |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. All home consumption.                                                                                                                                                                                                     |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                 | 13. They do, to a considerable extent, by the merchants and pedlars.                                                                                                                                                          |
| 14. Where are the manufactures consumed?                                                                                                   | 14. We are just struggling along; some will soon go to pieces.                                                                                                                                                                |
| 15. Whether any of the manufactures are exported to foreign countries? And if so, where?                                                   | 15. None.                                                                                                                                                                                                                     |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Some little for cash; credit until they are willing to pay.                                                                                                                                                               |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. In 1817 cloth sold at \$3 per yard, and has gradually been on the decline since, as you will see above.                                                                                                                   |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. Duty ought to be 75 or 80 cents to enable us to do business to the satisfaction of ourselves and others.                                                                                                                  |
| 19. What has been the rate of your profits annually for the last three years?                                                              | 19. Cleared 900 dollars since 1827.                                                                                                                                                                                           |
| 20. Amount of capital?                                                                                                                     | 20. 200 lbs. of wool is my capital; the above 3,500 is customers' work.                                                                                                                                                       |
| 21. Average rate of wages?                                                                                                                 | 21. Myself and apprentice do the work.                                                                                                                                                                                        |

ROBERT GARDNER

## DOCUMENT 14.—No. 119.

*Woollen Manufactory, Huntingdon County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Pennsylvania, Huntingdon county.                                                                                                           |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Woollen; 1 fulling mill; 2 carding machines; 1 picker and shearing machine.                                                                |
| 3. Capital invested in ground and buildings?                                                                                               | 3. 4,000 dollars.                                                                                                                             |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. 400 dollars.                                                                                                                               |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. 150 dollars, or 3½ per cent.                                                                                                               |
| 6. Cause of the increase (or decrease, as the case may be) of profit?                                                                      | 6. Decrease by reason of the scarcity of sheep, and plenty of imported cloths, and doubts of the duty being taken off.                        |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. Manufacture annually out of fleece, 4,000 lbs. wool; coarse 3-4 yd. cloth and flannels; cloths \$1 25 to \$1 50; flannels 75 cents to \$1. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. Dye stuffs, domestic materials, \$20; foreign, \$30.                                                                                       |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. 1 man; wages per month, \$12 and found.                                                                                                   |
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. 12 to 14 hours, employed all the year.                                                                                                    |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. All home consumption.                                                                                                                     |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 13. Competition goes so far as to supply the cash customers at the stores, leaving the poorer class to trade with us.                         |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the immediate neighborhood.                                                                                                            |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. None exported.                                                                                                                            |
| 16. Whether the manufactory is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Cash scarce; credit 12 months; barter wheat, rye, corn, flaxseed, tallow, &c. &c.                                                         |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. The factory just getting into operation fairly; been moving slowly, waiting for a fair breeze.                                            |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. From 30 to 40 per cent. ad valorem.                                                                                                       |
| 19. What has been the rate of your profits annually for the last three years?                                                              | 19. Not in operation so long.                                                                                                                 |
| 20. Amount of capital?                                                                                                                     | 20. 1,000 dollars.                                                                                                                            |
| 21. Average rate of wages?                                                                                                                 | 21. 18 to 20 dollars per month; to find themselves.                                                                                           |

THOMAS T. CBOMWELL.

ROXBILL WOOLLEN FACTORY, April 23, 1862.

## DOCUMENT 14.—No. 120.

*Woollens—Fulling, Carding, Spinning, &c. Huntingdon County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Pennsylvania, Huntingdon county.                                                                                                                                                                           |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Woollen—one fulling mill, two card machines, one spinning machine of 40 spindles, one shearing machine.                                                                                                    |
| 3. Capital invested in ground and buildings?                                                                                               | 3. Two thousand dollars.                                                                                                                                                                                      |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. One thousand two hundred and fifty dollars.                                                                                                                                                                |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. Three hundred dollars, and greater than that in books to collect, and that will attend with considerable trouble.                                                                                          |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                    | 6. The storekeepers impose upon us, and they are the cause of the decrease.                                                                                                                                   |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. Manufacture out of the fleece worth \$200 worth coarse three quarter yard cloth and coarse cassinets and flannels: cloth from \$1.12½ to \$1.50; cassinets from 75¢ to \$1; flannels from 75 cents to \$1. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. Including wool, wood, soap, &c. Foreign materials come at about \$50.                                                                                                                                      |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. Two men at \$10 each per month.                                                                                                                                                                           |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. Hours employed 12, work all days.                                                                                                                                                                         |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. All home consumption; and if made would not oppose us so with foreign as we could make and sell 20 times as much.                                                                                         |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                 | 13. Yes; the merchants bring in very nosies.                                                                                                                                                                  |
| 14. Where are the manufactures consumed?                                                                                                   | 14. None about here consumed, but are all struggling along at a poor rate.                                                                                                                                    |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                  | 15. None exported.                                                                                                                                                                                            |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Some little cash we get from the road hands; we will not trust them. All the same as cash at home. Barter sometimes.                                                                                      |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. In 1812 cloth of similar kind sold \$2 and \$2.25. Manufactured no cash then; it is now as mentioned above, but a tendency to grow worse.                                                                 |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. The duty on all the articles ought to be 70 or 80 per cent.                                                                                                                                               |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 19. In 1827 profits \$500, and the establishment not so large; in 1830 \$200, and establishment much larger.                                                                                                  |
| 20. Amount of capital?                                                                                                                     | 20. Look above.                                                                                                                                                                                               |
| 21. Average rate of wages?                                                                                                                 | 21. Two hundred and forty dollars.                                                                                                                                                                            |

WILLIAM GIBBONEY

Mr. Gibboney's supposition of the quantity of wool manufactured in this county's mills.

## DOCUMENT 14.—No. 121.

*Woolens—Fulling, Carding, and Manufacturing, Huntingdon County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Frankstown township, Huntingdon county, Pennsylvania.                                                                       |
| 2. Kind or description of the manufactory?                                                                                            | 2. Fulling, carding, and manufacturing.                                                                                        |
| 3. Capital invested in ground and buildings?                                                                                          | 3. \$500 in machinery and \$300 in buildings.                                                                                  |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. \$300 for materials and wages.                                                                                              |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. One hundred and ten dollars.                                                                                                |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                               | 6. Cause of decrease.                                                                                                          |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. \$ 150 worth of broad cloth; \$ 100 worth of blankets; \$ 100 worth of carpet; \$ 300 worth of country fulling and carding. |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. Three men, three boys; \$ 400 for men, \$ 100 for boys.                                                                    |
| 11. How many hours a day employed, and at what portion of the year?                                                                   | 11. Eleven hours a day, and ten months a year.                                                                                 |
| 12. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                             | 12. We find market at home.                                                                                                    |
| 19. What has been the rate of your profits, annually, for the last three years?                                                       | 19. Rate of profit six hundred dollars.                                                                                        |

BENJAMIN S. MCKEWAN.

## DOCUMENT 14.—No. 122.

*Wool—Fulling and Carding, Huntingdon County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Antis township, Huntingdon county, Pennsylvania.               |
| 2. Kind or description of the manufactory?                                                                                            | 2. One fulling mill, with machinery for carding wool.             |
| 3. Capital invested in ground and buildings?                                                                                          | 3. One thousand five hundred dollars.                             |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Works customers' materials; has no hired hands.                |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. About five per cent.                                           |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                               | 6. Has got worse these two years past, and don't know the reason. |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Don't know to a certainty.                                     |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. Twelve dollars' worth of foreign dye stuffs.                   |

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 9. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                             | 9. Not known.                                                     |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. One man, one woman, one boy; but no hirelings.                |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. The whole year, about 14 hours each day.                      |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. Used in this settlement.                                      |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 13. About one-third foreign coarse cloth, satinets, and flannels. |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In this and the adjoining counties.                           |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. None.                                                         |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Manufactured for pay.                                         |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. Do not know.                                                  |
| 19. What has been the rate of your profits annually for the last three years?                                                              | 19. Not more than five per cent. a year.                          |
| 20. Amount of capital?                                                                                                                     | 20. About \$1,800.                                                |
| 21. Average rate of wages?                                                                                                                 | 21. Has no hired hands.                                           |

Owned by SAMUEL MARTIN.

## DOCUMENT 14.—No. 123.

*William Richards' Wool Factory, Indiana County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. State of Pennsylvania, Indiana county. |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Woollen factory; water power.          |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. In 1824; owned individually.           |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. About thirty-five hundred dollars.     |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. About eighteen hundred dollars.        |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. From 8 to 12½ per cent.                |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                                                                    | 7. Foreign goods having fallen in price, and wages something higher, has had a tendency to decrease the profits.                                                       |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                                                           | 8. It varies from 8 to 20 per cent.                                                                                                                                    |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                                                    | 9. About 4000 yds. cassinets, average value 65 cts., per $\frac{1}{2}$ yd. wide; cloth \$1 25; flannels 33 cts.; blanketing, 1 yd. wide, \$1; baize, yd. wide, 40 cts. |
| 10. Quantity and value of different kinds of raw materials used? distinguishing between foreign products and domestic products?                                                                                                                                                                                                          | 10. Wool purchased in the surrounding country; price varies as per quality, from 28 to 45 cents per pound.                                                             |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                                                        | 12. 6 men, 2 women, and 4 children; average wages 38 per month and boarding.                                                                                           |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                                                         | 13. From 10 to 12 hours.                                                                                                                                               |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to market?                                                                                                                                                                                                                                  | 16. At the factory and in the neighborhood.                                                                                                                            |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                                                               | 17. Foreign goods do come in competition.                                                                                                                              |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                 | 18. In the surrounding country.                                                                                                                                        |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                                                                                                | 19. None exported.                                                                                                                                                     |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                               | 20. Bartered for the raw material and produce, and part sold for cash, and a part on credit.                                                                           |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                               | 21. The cost has varied but little, taking the average of the time; the raw material, labor, and provisions, all vibrate in price.                                     |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                               | 23. About thirty per cent.                                                                                                                                             |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                         | 24. Don't know.                                                                                                                                                        |
| 25. What has been the rate of your profits annually for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. From 10 to 15 per cent.; no joint stock.                                                                                                                           |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12 $\frac{1}{2}$ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                     | 29. If this reduction was made, the business would be unprofitable, and of course would have to be abandoned.                                                          |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12 $\frac{1}{2}$ per cent.?                                                                                                                                                               | 31. I think there are many others.                                                                                                                                     |

## DOCUMENT 14.—No. 124.

*A. Matthews' Wool Manufactory, Indiana County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                                                                | 1. Indiana county, Pennsylvania.                                                                                                                                                                |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                                                     | 2. Wool manufactory; water power.                                                                                                                                                               |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                                                                  | 3. Established in 1813; by myself                                                                                                                                                               |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                                                          | 4. About four thousand dollars.                                                                                                                                                                 |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                                                          | 5. Perhaps three hundred dollars.                                                                                                                                                               |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing the interest upon it, and the rate of profit upon that portion which is not borrowed?                                         | 6. The profits are very small, scarcely worth carrying on. No borrowed capital.                                                                                                                 |
| 7. Cause of the increase, (or decrease, as the case may be) of profit?                                                                                                                                                                                                                                                                   | 7. Because the imported goods are <del>less</del> <sup>more</sup> than we can manufacture them, and <del>we</del> <sup>men's</sup> wages higher.                                                |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                                                    | 9. About \$3,000 in all. Cloth, $\frac{1}{2}$ yd. wide, \$1; cassinets do. 65 cts.; flannels do. 33 cts.; baizes, 1 yd. wide, 50 cts.; bedding 40 cts. per yard; blankets, broad, \$1 per yard. |
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                                                                                                                                                                                                          | 10. Wool, from 33 to 40 cents, purchased at home.                                                                                                                                               |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                                                        | 12. About 11: men 5, women 2, children 4.                                                                                                                                                       |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                                                         | Men's wages about \$16 per month, women \$4, children 12 $\frac{1}{2}$ cents per day.                                                                                                           |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                          | 13. About 10 hours, principally in the summer season.                                                                                                                                           |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                | 15. One horse.                                                                                                                                                                                  |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                                                               | 16. Principally at home.                                                                                                                                                                        |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                               | 17. Foreign goods always have been lower than I could sell for cash.                                                                                                                            |
| 25. What has been the rate of your profits annually for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 21. Increased since 1830 about 14 per cent., and I believe it is in consequence of the tariff of 1828.                                                                                          |
| 29. If the duty upon the foreign manufac-                                                                                                                                                                                                                                                                                                | 25. About 12 $\frac{1}{2}$ per cent. No joint stock.                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                          | 29. If foreign goods should be brought                                                                                                                                                          |

## DOCUMENT 14.—No. 124—Continued.

| QUESTIONS.                                                                                                                                                                                                                      | ANSWERS.                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| ture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | any lower, I am sure I could not make any profit.                                                         |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                   | 31. If I had the money I have expended in this business, I could make a great deal more in raising stock. |

## DOCUMENT 14.—No. 125.

*Woollen Manufactory, Juniata County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Pennsylvania, Juniata county.                                                                                                                    |
| 2. Kind or description of the manufactory?                                                                                            | 2. Woollen cloth and satinets.                                                                                                                      |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Five thousand dollars.                                                                                                                           |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. \$600 for materials; and \$500 for wages.                                                                                                        |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. One thousand yards annually; 700 yards coarse cloth, and 300 yards satinets. Average on cloth 80 cents per yard, and satinets 75 cents per yard. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. One thousand lbs. wool, value \$600—domestic.                                                                                                    |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. Men, 2; women, 1; children, 5.                                                                                                                  |
| 11. How many hours a day employed? and what portion of the year?                                                                      | 11. Eight hours per day; six months of the year.                                                                                                    |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. In the vicinity.                                                                                                                                |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?            | 13. Foreign articles do enter into competition almost equivalent to the extinguishment of the domestic one.                                         |
| 14. Where are the manufactures consumed?                                                                                              | 14. In the vicinity.                                                                                                                                |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 15. None exported.                                                                                                                                  |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 16. Bartered for raw material and country produce.                                                                                                  |
| 20. Amount of capital?                                                                                                                | 20. From six to seven hundred dollars.                                                                                                              |
| 21. Average rate of wages?                                                                                                            | 21. Average for all the hands \$10 per month.                                                                                                       |

JOSEPH SCHOFIELD, *Manufactory*



## DOCUMENT 14.—No. 126.

*Mr. William Rogers' Woollen Manufactory, Lycoming County, Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. State of Pennsylvania; Lycoming county?                                                                                         |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Woollen factory; water power.                                                                                                   |
| 3. Capital invested in ground and buildings?                                                                                               | 3. \$3,000.                                                                                                                        |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. \$1,500.                                                                                                                        |
| 5. Annual rate of profit on capital invested?                                                                                              | 5. 8 per cent. per annum.                                                                                                          |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                    | 6. Duty on imports increased, increases our profits; and decreased, decreases our profits.                                         |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. \$2,000 annually; 1,450 yards satinets at 68½ cents per yard, at an average; 417 yards broadcloth, averaging \$2 40 per yard.   |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. Domestic products; 2,500 lbs. wool at 30 cents per lb.; 100 lbs. cotton warps at 35 cents per lb. Foreign dye drugs, 1,300 lbs. |
| 10. Number of men, women and children employed, and average wages of each class?                                                           | 10. 1 man at \$25 per month; 2 boys at \$4 per month; 2 women at \$8 per month.                                                    |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. 12 hours per day; 8 months in the year.                                                                                        |
| 12. Whether the manufacturer finds a market at the manufactory? If not, how far they are sent to a market?                                 | 12. Sold in this and joining counties, within 40 miles of the factory.                                                             |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 13. Fine cloth enters into a very great competition; so great that fine cannot be made.                                            |
| 14. Where are the manufactures consumed?                                                                                                   | 14. Within 40 miles of the factory.                                                                                                |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. Not exported.                                                                                                                  |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. ½ for cash, ½ for iron, ½ for wood, ½ for dye stuffs and groceries.                                                            |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Satinets averaging 68½ cts. per yard; broadcloth, \$2 40 per yard.                                                             |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. 50 per cent. on fine cloths.                                                                                                   |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 19. 8 per cent per annum.                                                                                                          |
| 20. Amount of capital?                                                                                                                     | 20. \$2,500.                                                                                                                       |
| 21. Average rate of wages?                                                                                                                 | 21. \$588 per annum.                                                                                                               |

## DOCUMENT 14.—No. 127.

*Samuel Rogers's Woollen Factory, Lycoming County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. State of Pennsylvania, Lycoming county.                                                                                                                                   |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Woollen cloths and satinets; water power.                                                                                                                                 |
| 3. Capital invested in ground and buildings?                                                                                               | 3. Nine thousand dollars.                                                                                                                                                    |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. \$4,924; establishment capable of using \$20,000 to a good advantage.                                                                                                     |
| 5. Annual rate of profit on capital invested?                                                                                              | 5. Eight per cent. per annum.                                                                                                                                                |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                    | 6. Duty increased on imports increases our profits; and decreased it decreases our profits.                                                                                  |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. Established in 1818; manufactured annually \$6,080; 6666 yards satinets, at an average of 68½ cents per yard; 722 yards broad cloth, at an average of 208 cents per yard. |
| 8. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?             | 8. Domestic, 10,000 lbs. wool, at 30 cents; 1,250 lbs. warps, at 35 cents, foreign dye drugs, 2,500 lbs.                                                                     |
| 10. Number of men, women and children employed, and average wages of each class?                                                           | 10. Six men at \$25 per month; four girls at \$8 per month; five boys at \$4 per month.                                                                                      |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. 12 hours per day the year round.                                                                                                                                         |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. Sold in the adjoining counties, within forty miles of the factory.                                                                                                       |
| 13. Whether foreign articles of the like kinds enter into competition at such place of sale, and to what extent?                           | 13. Imported fine cloth is sold near this so low that we cannot make fine cloth for sale.                                                                                    |
| 14. Where are the manufactures consumed?                                                                                                   | 14. Consumed within forty miles of the factory.                                                                                                                              |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. Not exported.                                                                                                                                                            |
| 16. Whether the manufacture is sold by the manufacturer for cash? and, if on credit, at what credit? if bartered, for what?                | 16. One-third for cash at three months' credit; one-third for wool; one-sixth for iron and domestic products; and one-sixth for imported groceries and dye drugs.            |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Satinets, average 68½ cents per yard; broad cloths, average 208 cents per yard.                                                                                          |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. 50 per cent. on imports is necessary to enable the manufacturer to compete with foreigners in the home market.                                                           |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 19. Eight per cent., annually, on the whole capital.                                                                                                                         |
| 20. Amount of capital?                                                                                                                     | 20. Eleven thousand five hundred dollars.                                                                                                                                    |
| 21. Average rate of wages?                                                                                                                 | 21. Two thousand four hundred and twenty-four dollars.                                                                                                                       |

## DOCUMENT 14.—No. 128.

*Messrs. Rich & McCormick's Woollen Factory, Lycoming County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. State of Pennsylvania, Lycoming county.                                                                                                                                                                                                                     |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Woollen manufactory; water power.                                                                                                                                                                                                                           |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Established in 1830; a joint stock concern.                                                                                                                                                                                                                 |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Capital invested \$9,000.                                                                                                                                                                                                                                   |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. Five thousand dollars.                                                                                                                                                                                                                                      |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. A joint concern, and no dividends have been made since the commencement.                                                                                                                                                                                    |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. Rolls 5,000 lbs.; yarn 1,000 lbs.; country fulling 4,000 yards, made for farmers of their own wool; 4,000 yards manufactured of our wool; 1,000 yards broad cloth, at \$2 50 per yard; 3,000 yards satinete, at 70 cents; 1,000 yards flannel, at 60 cents. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. 4,500 lbs. wool, at 56 cents per lb.; domestic and foreign dye drugs, 2,500 lbs.                                                                                                                                                                           |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                                                                     | 12. 12 men at \$20 per month; two women at \$6 per month; and six boys at \$9 per month.                                                                                                                                                                       |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                     | 13. 12 hours per day, and 10 months in the year.                                                                                                                                                                                                               |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. Two horses.                                                                                                                                                                                                                                                |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. Sold at the factory.                                                                                                                                                                                                                                       |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. In Lycoming and Centre counties.                                                                                                                                                                                                                           |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                                                            | 19. Not exported.                                                                                                                                                                                                                                              |
| 20. Whether the manufacture is sold by the manufacturer for cash? and, if on credit, at what credit? if bartered, for what?                                                                                                                                                                          | 20. Sold for cash at six months' credit, and bartered for flour, meat, and bar iron, &c.                                                                                                                                                                       |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                 | 22. Broad cloth averaging \$2 50 cents, satinete 70 cents, and flannel 60 cents, per yard each.                                                                                                                                                                |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                              | 29. Would abandon the business.                                                                                                                                                                                                                                |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                       | 30. Buying land.                                                                                                                                                                                                                                               |

## DOCUMENT 14.—No. 128—Continued.

| QUESTIONS.                                                                                                                                                    | ANSWERS.        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.? | 31. In farming. |

## DOCUMENT 14.—No. 129.

*Joseph Sweet's Woollen Factory, Lycoming County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. State and county in which the manufactory is situated?</p> <p>2. Kind or description of the manufactory?</p> <p>3. Capital invested in ground and buildings?</p> <p>4. Average amount in materials, and in cash for the purchase of materials and payment of wages?</p> <p>5. Annual rate of profit on the capital invested?</p> <p>6. Cause of the increase, (or decrease, as the case may be,) of profit?</p> <p>7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?</p> <p>8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?</p> <p>10. Number of men, women, and children employed, and average wages of each class?</p> <p>11. How many hours a day employed, and what portion of the year?</p> <p>12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?</p> <p>13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?</p> <p>14. Where are the manufactures consumed?</p> <p>15. Whether any of the manufactures are exported to foreign countries? and if so, where?</p> <p>16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?</p> <p>17. The prices at which the manufactures have been sold by the manufacturer since the establishment?</p> <p>18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?</p> | <p>1. State of Pennsylvania, Lycoming county.</p> <p>2. Woollen factory; water power.</p> <p>3. Three thousand dollars.</p> <p>4. Fifteen hundred and sixty-five dollars.</p> <p>5. Seven per cent.</p> <p>6. Duty increased on imports increases our profits, and decreased decreases our profits.</p> <p>7. 3,500 pounds rolls; 800 pounds yarn; 800 yards satinets, average 60 cents per yard; country fulling 1,400 yards satinets and cloth, 200 yards flannels.</p> <p>8. 4,300 lbs. wool at 53 cents per pound, domestic; foreign dye drugs, 800 lbs.</p> <p>10. Five men at \$20 per month; four boys at \$10 per month, and four women at six dollars per month.</p> <p>11. Twelve hours per day, and ten months in the year.</p> <p>12. Sent to Philadelphia, 170 miles.</p> <p>13. Foreign articles of same kind do enter into competition with them; extent unknown.</p> <p>14. In the United States.</p> <p>15. Not exported.</p> <p>16. For cash, on a credit of three months.</p> <p>17. Average 60 cents per yard.</p> <p>18. The duty ought to be one-half higher than it is at present.</p> |

## DOCUMENT 14.—No. 129—Continued.

| QUESTIONS.                                                                      | ANSWERS.                                                                  |
|---------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| 19. What has been the rate of your profits, annually, for the last three years? | 19. But one year established; profits on capital invested seven per cent. |
| 20. Amount of capital?                                                          | 20. \$ 4,565.                                                             |
| 21. Average rate of wages?                                                      | 21. Average rate per month fifteen dollars and a half.                    |

## DOCUMENT 14.—No. 130.

*Peter Blackwell's Woollen Factory, Lycoming County, West Pennsylvania.*

| QUESTIONS.                                                                                                                             | ANSWERS.                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                              | 1. State of Pennsylvania, Lycoming county.                                                                                                                                                                                     |
| 2. Kind or description of the manufactory?                                                                                             | 2. Woollen factory; water power.                                                                                                                                                                                               |
| 3. Capital invested in ground and buildings?                                                                                           | 3. Two thousand five hundred dollars.                                                                                                                                                                                          |
| 4. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                       | 4. Two thousand and fifty-four dollars.                                                                                                                                                                                        |
| 5. Annual rate of profit on the capital invested?                                                                                      | 5. Six per cent.                                                                                                                                                                                                               |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                | 6. Duty increased on imports increases our profits, and it decreased decreases our profits.                                                                                                                                    |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value, of each kind? | 7. 1,300 yards satinnet at 62½ cents per yard; 500 yards cloth at \$1 12½ per yard; 200 yards flannel at 70 cents per yard; 200 yards blanketing at 87½ cents per yard; country filling 2,000 yards; 4,000 pounds wool carded. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?         | 8. 1,825 lbs. wool at 53 cents per pound, domestic; 1,238 pounds foreign dye drugs.                                                                                                                                            |
| 9. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                         | 9. Imported from Europe casinet the same quality at 50 cts. per yard; cloth, flannels and blankets in proportion.                                                                                                              |
| 10. Number of men, women, and children, employed, and average wages of each class?                                                     | 10. Five men at \$20 per month; three boys \$9 per month; one woman at \$6 per month.                                                                                                                                          |
| 11. How many hours a day employed; and what portion of the year?                                                                       | 11. Twelve hours in the day, and nine months in the year.                                                                                                                                                                      |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                              | 12. A part of the manufactures sold at the factory, and the other part sent to Philadelphia, 212 miles.                                                                                                                        |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?             | 13. They do enter into competition, so that superfine cloths cannot be made.                                                                                                                                                   |
| 14. Where are the manufactures consumed?                                                                                               | 14. The part sold at the factory is consumed in the county; the part sold at market in the United States.                                                                                                                      |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                              | 15. Not exported.                                                                                                                                                                                                              |
| 16. Whether the manufacture is sold by the manufacturer for cash? and, if on credit, at what credit? if bartered, for what?            | 16. The part sold at the factory for labor, meat, and flour, and that sent to market for cash.                                                                                                                                 |

## DOCUMENT 14.—No. 120—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 17. The prices at which the manufacture has been sold by the manufacturer since the establishment?                                         | 17. Satinet 62½ cents per yard; cloth \$1 12½ per yard; blankets 87½ cents per yard; flannel 70 cents per yard. |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. On coarse cloths 50 per cent.; on fine 55 per cent.                                                         |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 19. But one year established; profits six per cent. on capital invested.                                        |
| 20. Amount of capital?                                                                                                                     | 20. \$ 4,554.                                                                                                   |
| 21. Average rate of wages?                                                                                                                 | 21. \$ 1,215 per year.                                                                                          |

## DOCUMENT 14.—No. 131.

*R. and J. Holgate's Woollen Factory, Luzerne County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufacture is situated?                                                                                                                                                                                                                                            | 1. Pennsylvania, Luzerne county.                                                                                                                                                                                       |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Woollen factory; water power; Toby' creek.                                                                                                                                                                          |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. In 1822; joint stock concern.                                                                                                                                                                                       |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Eight thousand dollars.                                                                                                                                                                                             |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. Three thousand dollars.                                                                                                                                                                                             |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. About four per cent.                                                                                                                                                                                                |
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                                | 7. An increase last year, perhaps in consequence of the tariff.                                                                                                                                                        |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. From six to twenty per cent.                                                                                                                                                                                        |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. About 2,000 yds. of cloth, satinet, and flannel: ¾ yd. cloth at from 62 cents to \$1 50 per yard; satinet from 62 to 125 cents per yard; flannel from 37 to 62 cents.                                               |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. About 2,000 lbs. wool and cotton yarn: wool 45 cents per lb., cotton yarn 37½ cents per lb.                                                                                                                        |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. The last year they have sold about as stated above, but before that they undersold us 25 per cent.                                                                                                                 |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. 3 men, at \$15 per month; 1 at \$20 per month; 3 boys, at \$6 per month; 3 women, at \$12 per month, weavers. These hands are employed a good part of their time in fulling and dressing cloth for country custom. |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                                                           | 13. Ten hours per day; 10 months.                                                                                                     |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                                                           | 14. About the same, excepting women whose wages are generally lower.                                                                  |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. One horse.                                                                                                                        |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. Last year a market at the factory; other years sent to Philadelphia; 120 miles.                                                   |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                                                                 | 17. Last year we were able to compete with a very small profit, but other years foreign goods were sold 25 per cent. lower than ours. |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. At Philadelphia, generally.                                                                                                       |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Sold at a credit of six months' generally.                                                                                        |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                | 21. No material change.                                                                                                               |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. Some small variations from the prices above.                                                                                      |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. An increase of 10 per cent. ad valorem.                                                                                           |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. About four or five per cent.                                                                                                      |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. Raw materials about 50 cents, labor about 50 cents, profits 6½ cents.                                                             |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. About \$400 agricultural productions.                                                                                             |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29. Quit it immediately. We could not manufacture at reduced prices.                                                                  |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. Perhaps in farming; but the greater part of our capital would be lost.                                                            |

## DOCUMENT 14.—No. 131—Continued.

| QUESTIONS.                                                                                                                                                               | ANSWERS.                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent?             | 31. Yes, a number.                                                                     |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent; and how gradual the reduction should be? | 34. It does not yield 6 per cent now.                                                  |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                              | 37. A little more encouragement by Government, and a sufficiency will be manufactured. |

R. &amp; J. HOLGATE.

## DOCUMENT 14.—No. 132.

*Sterling and Parker's Woollen Factory, Luzerne County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Luzerne county, Pennsylvania.                                                                                                                                                                                                                                            |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Woollens, satinets, and cassimeres the past year; water power.                                                                                                                                                                                                           |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. 1823; joint stock.                                                                                                                                                                                                                                                       |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. \$6,000.                                                                                                                                                                                                                                                                 |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. \$4,750.                                                                                                                                                                                                                                                                 |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. 4 and 5 per cent. on capital borrowed; a loss the past year of 1 or 2 per cent.; consider it a losing business the last year on account of the high price of wool and the present low price of goods: they cannot be sold for cash without a great sacrifice at present. |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. Price of goods in the cities; and that is governed by the quantity in market, and facility of procuring cash.                                                                                                                                                            |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. From 6 to 20 per cent.                                                                                                                                                                                                                                                   |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. The past year 2,400 yards cassimere; 4,200 yards satinets; cassimere, average \$1 25; satinets sent to Philadelphia, from 41½ to 50; sold to country merchants from 50 to 90 cassimere; cassimere to country merchants \$1 25 to \$1 50.                                 |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. Dye stuffs, \$250; satinet warps, \$200; oil, \$100; soap, 75; 200 cords wood, \$125; black oak and white maple bark, quantity uncertain, procured near the factory; supposed cost \$150.                                                                               |



| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                                                            | 11. Not sufficiently informed to give a correct answer.                                                                                                                                                                                                                           |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                                                                                                           | 12. 10 men, \$18 per month, including board; 3 women, \$2 per week, including board; 4 children, average cost, \$1 75 per week.                                                                                                                                                   |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                                                           | 13. 14 in summer, and 12 in winter.                                                                                                                                                                                                                                               |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                                                           | 14. Farmers, \$10 per month; mechanics, of other trades, \$15 to \$25; women, from \$1 50 to \$1 75, including board; children, from \$2 to \$4 per month, and boarded.                                                                                                           |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. 1 horse; about \$100 for teaming besides.                                                                                                                                                                                                                                     |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. A part sold at the factory; the greater part sold in this and Susquehannah counties; some part sent to Philadelphia: all sent there afford a loss.                                                                                                                            |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. Those sold in the two counties mentioned above consumed there; those sent to the city not known where consumed.                                                                                                                                                               |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                                                                   | 19. See answer to above.                                                                                                                                                                                                                                                          |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Sometimes for cash, when compelled to raise cash, but most generally at a loss; the greater part bartered for wool and merchandise for the workmen, and materials for the factory; on a credit of 6 months and a year.                                                        |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                 | 21. Satinet has decreased with us owing to our improvements, and procuring better warps; other goods very much the same; we believe if we could avail ourselves with the machinery, in the perfect manner in which it is used at the east, it would diminish the cost materially. |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. Satinets from 50 to \$1 50; other goods from 75 cts. to \$2 50.                                                                                                                                                                                                               |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. Believe the duties ought not to be reduced; large manufacturing establishments can decide this question best, as we do not believe we can compete with them in our present situation.                                                                                         |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. It is a joint stock company; no dividends have been made for 7 years; profits not exactly known; the property has in a measure created itself, and the most that is available is converted into improvements.                                                                 |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. Raw material about 3-7; labour 3-7 1-7 profits of capital.                                                                                                                                                                                                                    |

## DOCUMENT 14.—No. 132.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                        | 27. Pork, beef, and grain, \$335; other domestic productions, \$400.                                                                                                                           |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. The manager of the firm is one of the owners, and he would rejoice to quit it with present rate of duties: would not think of continuing longer if the duties are reduced to 12½ per cent. |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. The capital would lose more than half its present value if the owners started no business so much needed in the country as this the capital would be converted to.                         |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to twelve and a half per cent.?                                                                                             | 31. Hardly any pursuit but what we should prefer, but think we should choose agricultural.                                                                                                     |

STERLING &amp; PARKER.

## DOCUMENT 14.—No. 133.

*Truman C. Sandford's Woollen Manufactory, Sandy Lake, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Sandy Lake township, Mercer county, Pennsylvania.                                                                                                              |
| 2. Kind or description of the manufactory?                                                                                            | 2. Woollen manufactory of cloth, blankets, &c.                                                                                                                    |
| 3. Capital invested in ground and buildings?                                                                                          | 3. \$1,000.                                                                                                                                                       |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. \$250.                                                                                                                                                         |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. 12½ per cent.                                                                                                                                                  |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. About 2,000 yards; coarse cloths, flannels, and blankets; of coarse cloths, 1,000 yards, worth \$1 per yard; of flannels, 750 yards, worth 62½ cents per yard. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. Dye stuffs, foreign, about \$30; domestic, about \$8.                                                                                                          |
| 10. Number of men, women and children employed, and average wages of each class?                                                      | 10. Two men, one boy; for the men \$75 each, for the boy \$50.                                                                                                    |
| 11. How many hours a day employed, and what portion of the year?                                                                      | 11. 14 hours, 6 months.                                                                                                                                           |
| 14. Where are the manufactures consumed?                                                                                              | 14. In the vicinity.                                                                                                                                              |

## DOCUMENT 14.—No. 133.—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                           |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. None exported.                 |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. There ought to be a high duty. |
| 21. Average rate of wages?                                                                                                                 | 21. About \$75 for a workman.      |

## DOCUMENT 14.—No. 134.

*Aaron Dawson's Woollen Manufactory, Mahoning, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Mercer county, Pennsylvania.                                                                                                             |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Woollen.                                                                                                                                 |
| 3. Capital invested in ground and buildings?                                                                                               | 3. \$1,000.                                                                                                                                 |
| 4. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                           | 4. \$275.                                                                                                                                   |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. 25 per cent.                                                                                                                             |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. About 2,000 yards; of which 1,000 are coarse cloths, worth \$1 per yard, and 1,000 of flannels and blanketing, worth 62½ cents per yard. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. About \$30 worth of foreign dye stuff, and about \$10 worth of domestic.                                                                 |
| 10. Number of men, women and children employed, and average wages of each class?                                                           | 10. Two men at \$20 per month.                                                                                                              |
| 11. How many hours a day employed, and what portion of the year.                                                                           | 11. 14 hours, six months.                                                                                                                   |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the vicinity.                                                                                                                        |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. None exported.                                                                                                                          |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. There ought to be a high duty.                                                                                                          |

## DOCUMENT 14.—No. 135.

*B. F. Elliot's Woollen Manufactory, Slippery Rock, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Mercer county, Pennsylvania.                                                                                                                                                                         |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Woollen.                                                                                                                                                                                             |
| 3. Capital invested in ground and buildings?                                                                                               | 3. \$1,000.                                                                                                                                                                                             |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. \$200.                                                                                                                                                                                               |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. 20 per cent.                                                                                                                                                                                         |
| 6. Cause of the increase (or decrease, as the case may be,) of profit?                                                                     | 6. A rise in the price of wool occasioned a decrease of profit.                                                                                                                                         |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. About 2,000 yards of coarse cloths, flannels and blankets; of coarse cloths about 1,000 yards, worth \$1 per yard; of flannels 750 yards, of blankets 250 yards; each kind worth 62½ cents per yard. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. About \$35 of foreign dye stuffs; \$15 of domestic.                                                                                                                                                  |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. One man at \$25 per month.                                                                                                                                                                          |
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. 14 hours, six months.                                                                                                                                                                               |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. They are consumed in the vicinity of the manufactory.                                                                                                                                               |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. A high duty.                                                                                                                                                                                        |

## DOCUMENT 14.—No. 136.

*J. & T. Brown's Woollen Manufactory, Sandy Lake, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.                                                  |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Mercer county, Pennsylvania.                           |
| 2. Kind or description of the manufactory?                                                      | 2. Woollen manufactory of cloths, blankets, and flannels. |
| 3. Capital invested in ground and buildings?                                                    | 3. \$1,000.                                               |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 4. \$200.                                                 |

## DOCUMENT 14.—No. 136—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. 20 per cent.                                                                                                                                                                                        |
| 6. Cause of the increase (or decrease, as the case may be,) of profit?                                                                     | 6. A rise in wool occasioned a decrease in profit.                                                                                                                                                     |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. About 2,000 yards of coarse cloth, flannels and blankets; of coarse cloths about 1,000 yards, worth \$1 per yard; of flannels 750 yards, of blankets 250 yards, each kind worth 62½ cents per yard. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. About \$35 worth of foreign dye stuffs, \$15 of domestic.                                                                                                                                           |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. One man at \$25 per month.                                                                                                                                                                         |
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. 14 hours, six months.                                                                                                                                                                              |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. They are consumed in the vicinity of the manufactory.                                                                                                                                              |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. A high duty.                                                                                                                                                                                       |

## DOCUMENT 14.—No. 137.

*Thomas Leech's Woollen Manufactory, Salem, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Mercer county, Pennsylvania.                                                                                                                                                                                                   |
| 2. Kind or description of the manufactory?                                                                                            | 2. Woollen, manufacture of cloth, blankets, &c.                                                                                                                                                                                   |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Nine hundred and fifty dollars.                                                                                                                                                                                                |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Three hundred dollars.                                                                                                                                                                                                         |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Twelve and a half per cent.                                                                                                                                                                                                    |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Coarse cloth, flannels, and blankets, about 3000 yards; 2500 yards cloth worth \$1, and 500 yards flannel, &c. 62½, 312 50, making \$ 2812 50 manufactured for the country. Dye stuffs, foreign products, \$40, domestic \$10. |
| 8. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?        | 8. No raw material; that is furnished by those for whom we do the work.                                                                                                                                                           |

## DOCUMENT 14.—No. 137—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. 1 man and 2 boys; \$100 for the man, and \$50 for the boys each. |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. 6 months in the year; 14 hours per day.                          |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. In the vicinity.                                                 |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the vicinity.                                                 |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. None exported.                                                   |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. There ought to be a high duty.                                   |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 19. Twelve and a half per cent.                                      |
| 21. Average rate of wages?                                                                                                                 | 21. About \$75 average.                                              |

## DOCUMENT 14.—No. 138.

*Mrs. Jane Ormsby's Woollen Factory, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Mercer county, Pennsylvania.                                                                                      |
| 2. Kind or description of the manufactory?                                                                                            | 2. Woollen.                                                                                                          |
| 3. Capital invested in ground and buildings?                                                                                          | 3. \$300.                                                                                                            |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. \$700.                                                                                                            |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. 25 per cent.                                                                                                      |
| 6. Cause of the increase (or decrease, as the case may be,) of profit?                                                                | 6. Somewhat increased—supposed to be in consequence of the present rate of duties on cloths.                         |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. About 2,000 yards dressed cloth at \$1, \$1,500; flannels, &c., 500 yards, worth 375,<br>\$1,875.                 |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. 5,000 lbs. domestic wool carded, worth 40 cents. \$2,000; foreign dye stuffs used, \$40; domestic copperas, \$10. |
| 10. Number of men, women and children employed, and average wages of each class?                                                      | 10. 2 men, \$1.50 each.                                                                                              |
| 11. How many hours a day employed, and what portion of the year?                                                                      | 11. 12 hours.                                                                                                        |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. All consumed in the vicinity.                                                                                    |
| 14. Where are the manufactures consumed?                                                                                              | 14. In the vicinity.                                                                                                 |

## DOCUMENT 14.—No. 138.—Continued.

| QUESTIONS.                                                                                           | ANSWERS.                                                                   |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?             | 15. None exported.                                                         |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment? | 17. $\frac{1}{2}$ cloth at \$1; flannels, &c., at 50 to 62 $\frac{1}{2}$ . |
| 19. What has been the rate of your profits, annually, for the last three years?                      | 19. 25 per cent.                                                           |
| 20. Amount of capital?                                                                               | 20. \$800.                                                                 |
| 21. Average rate of wages.                                                                           | 21. \$150.                                                                 |

## DOCUMENT 14.—No. 139.

*Messrs. Wilson's Woollen Factory, Nashanock, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Mercer county, Pennsylvania.                                                                                                                                        |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Woollen.                                                                                                                                                            |
| 3. Capital invested in ground and buildings?                                                                                               | 3. \$1,500.                                                                                                                                                            |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. \$300.                                                                                                                                                              |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. 20 per cent.                                                                                                                                                        |
| 6. Cause of the increase (or decrease, as the case may be,) of profit?                                                                     | 6. A rise in the price of wool in 1831 made a decrease.                                                                                                                |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. About 5,000 yards; 2,500 of which was cloth, worth \$1 per yard; 500 yards worth \$2 per yard; 2,000 blanketing and flannel, worth 62 $\frac{1}{2}$ cents per yard. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. About \$70 of foreign dye stuffs—about \$30 of domestic.                                                                                                            |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. 2 men; each man \$175 per year.                                                                                                                                    |
| 11. How many hours a day employed? and what portion of the year?                                                                           | 11. 10 hours, the whole year.                                                                                                                                          |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. At the manufactory.                                                                                                                                                |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the vicinity of the manufactory.                                                                                                                                |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. Not exported.                                                                                                                                                      |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. A high duty.                                                                                                                                                       |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 19. \$1,900.                                                                                                                                                           |

## DOCUMENT 14.—No. 140.

*John C. Robinson's Woollen Manufactory, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Mercer county, Pennsylvania.                                                                                                            |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Woollen.                                                                                                                                |
| 3. Capital invested in ground and buildings?                                                                                               | 3. Three hundred dollars.                                                                                                                  |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. Six hundred dollars.                                                                                                                    |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. Twenty-five per cent.                                                                                                                   |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                    | 6. Some increase, supposed in consequence of the protecting duty.                                                                          |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. 4,500 yards, 3,000 of which cloth, and 1,500 flannels, &c.; the cloth worth \$1 per yard, the flannels 50 to 62½ cents; amount \$3,900. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. Foreign dye stuffs \$40; domestic dye stuffs \$10.                                                                                      |
| 10. Number of men, women and children employed, and average wages of each class?                                                           | 10. One man, one boy; the man \$150, the boy \$60.                                                                                         |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. Twelve hours; six months in the year.                                                                                                  |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. Consumed in the vicinity.                                                                                                              |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the vicinity.                                                                                                                       |
| 15. Whether any of the manufactures are exported to foreign countries? And if so, where?                                                   | 15. None exported.                                                                                                                         |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. The duties should not be reduced.                                                                                                      |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 19. Twenty-five per cent.                                                                                                                  |
| 20. Amount of capital?                                                                                                                     | 20. Seven hundred dollars.                                                                                                                 |
| 21. Average rate of wages?                                                                                                                 | 21. One hundred and fifty dollars.                                                                                                         |

## DOCUMENT 14.—No. 141.

*James Martin's Slippery Rock Woollen Factory, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.                        |
|-------------------------------------------------------------------------------------------------|---------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Mercer county, Pennsylvania. |
| 2. Kind or description of the manufactory?                                                      | 2. Woollen.                     |
| 3. Capital invested in ground and buildings?                                                    | 3. Nine hundred dollars.        |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 4. Two hundred dollars.         |



## DOCUMENT 14.—No. 141—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. Twenty-five per cent.                                                                                                                                                                   |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. About 2,000 yards in the whole; of which about 1,000 yards are coarse cloths worth 75¢ per yard; 750 yards of flannel, and 250 yards of blanketing; each kind worth 62½ cents per yard. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. About \$35 worth of foreign dye stuffs; \$15 of domestic.                                                                                                                               |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. One man at \$25 per month.                                                                                                                                                             |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. Fourteen hours, six months.                                                                                                                                                            |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. They are consumed in the neighborhood of the manufactory.                                                                                                                              |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. A high duty.                                                                                                                                                                           |

## DOCUMENT 14.—No. 142.

*R. & J. McFarlane's Woollen Manufactory, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Mercer county, Pennsylvania.                                                                                       |
| 2. Kind or description of the manufactory?                                                                                            | 2. Cloth manufactory.                                                                                                 |
| 3. Capital invested in ground and buildings?                                                                                          | 3. One thousand dollars.                                                                                              |
| 4. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                      | 4. One thousand dollars.                                                                                              |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                               | 6. A rise in the price of wool in 1831 caused a considerable decrease in profit.                                      |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Satinets, worth from \$1 to \$1.50 per yard; coarse cloths, worth \$1 per yard; blankets, worth 75 cents per yard. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. About \$500 worth of wool and cotton domestic, and \$50 worth of foreign dyes and stuffs.                          |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. Four men, two boys; the men at \$11 per month each; the boys at \$50 each per year.                               |
| 11. How many hours a day employed; and what portion of the year?                                                                      | 11. Ten hours a day, the whole year.                                                                                  |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. Part at the manufactory; and part carried about 50 miles.                                                         |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?            | 13. They do, and to a considerable extent.                                                                            |

## DOCUMENT 14.—No. 142.—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. None exported.                                                                                  |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. The present duty is not sufficient to give full protection: the tariff ought to be made higher. |
| 20. Amount of capital?                                                                                                                     | 20. About three thousand dollars.                                                                   |

## DOCUMENT 14.—No. 143.

*Thomas Miller's Woollen Manufactory, Mahoning, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Mercer county, Pennsylvania.                                                                                                                                      |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Woollen.                                                                                                                                                          |
| 3. Capital invested in ground and buildings?                                                                                               | 3. \$1,000.                                                                                                                                                          |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. \$300.                                                                                                                                                            |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. 20 per cent.                                                                                                                                                      |
| 6. Cause of the increase (or decrease, as the case may be,) of profit?                                                                     | 6. A rise in the price of wool in 1831, made a decrease of profit.                                                                                                   |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. About 8,000 yards; 2,500 of which was cloth, worth \$1 per yard; 500 yards, worth \$2 per yard; and 2,000 yards blanketing and flannel, worth 62½ cents per yard. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. About \$70 of foreign dye stuffs; about \$20 of domestic.                                                                                                         |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. Two men; each man \$175 per year.                                                                                                                                |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. 10 hours, the whole year.                                                                                                                                        |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. At the manufactory.                                                                                                                                              |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the vicinity of the manufactory.                                                                                                                              |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. Not exported.                                                                                                                                                    |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. A high duty.                                                                                                                                                     |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 19. \$1,400.                                                                                                                                                         |

## DOCUMENT 14.—No. 144.

*Samuel M. Sively's Fulling Factory, and Carding, Weaving and Spinning Machines, Mifflin County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Mifflin county, Pennsylvania.                                                                                                                                                         |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Fulling mill, carding machine, and weaving and spinning machines; water power; joint stock concern.<br>3. \$1,500.                                                                    |
| 3. Capital invested in ground and buildings?                                                                                               | 4. Materials \$300; \$200 for the purchase of materials; three hands at \$10 per month.                                                                                                  |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 5. About \$200; a good part of that book accounts.                                                                                                                                       |
| 5. Annual rate of profit on the capital invested?                                                                                          | 6. Decrease caused by the merchants opposing, and also the pedlars.                                                                                                                      |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                    | 7. \$3,600 worth, annually, of cloths, blanketing, cassinets, &c.; cloth is of that quality that brings us about \$1 per yard; blanketing about 50 cents; cassinets 62½ cents, per yard. |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 8. Foreign materials about \$25; wool, 500 lbs. at 40 cents.                                                                                                                             |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 10. Three men, and no women; employment for about 10 months, at \$10 per month per hand.                                                                                                 |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 11. Employed about 12 hours, 10 months.                                                                                                                                                  |
| 11. How many hours a day employed; and what portion of the year?                                                                           | 12. All home consumption.                                                                                                                                                                |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 13. They do, very considerably, in some of the articles, viz. flannels and blanketing.                                                                                                   |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 14. At home.                                                                                                                                                                             |
| 14. Where are the manufactures consumed?                                                                                                   | 15. Not any.                                                                                                                                                                             |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                  | 16. Sell something like \$40 worth for cash, the rest credit; the credit unlimited; if bartered, for wheat.                                                                              |
| 16. Whether the manufacture is sold by the manufacturer for cash? and, if on credit, at what credit? if bartered, for what?                | 17. Refer to question 7.                                                                                                                                                                 |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 18. About 50 per cent.                                                                                                                                                                   |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 19. Vide above.                                                                                                                                                                          |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 20. Look above.                                                                                                                                                                          |
| 20. Amount of capital?                                                                                                                     | 21. Ditto.                                                                                                                                                                               |
| 21. Average rate of wages?                                                                                                                 |                                                                                                                                                                                          |

SAMUEL M. SIVELY.

## DOCUMENT 14.—No. 145.

*Alexander Gibbons, jr.'s Fulling Mill and Shearing Machine, Mifflin County, West Penn'a.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Mifflin county, State of Pennsylvania.                                                                                                                                              |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Water power; fulling mill; shearing machine.                                                                                                                                        |
| 3. Capital invested in ground and buildings?                                                                                               | 3. The whole of my property I estimate at \$4,000. The fulling mill and lot at about \$2,000.                                                                                          |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. I only manufacture from the loom; and I work up 5,000 lbs., at 40 cents per lb.; employ two hands for six months, at \$10 per month.                                                |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. Profit \$400, principally all to collect.                                                                                                                                           |
| 6. Causes of the increase (or decrease, as the case may be) of profit?                                                                     | 6. Decrease is caused by the storekeepers, being enabled to oppose us on account of their getting the goods so cheap.                                                                  |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. Including dye stuffs, wood, soap, &c. \$200; foreign materials about \$75.                                                                                                          |
| 9. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                             | 9. I suppose they could sell at 75 cents per yard such as we sell at \$1.                                                                                                              |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. Two men, at \$10 each per month.                                                                                                                                                   |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. 12 hours, six months in the year.                                                                                                                                                  |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. All home consumption. If merchants could not oppose us with foreign goods, we would do much better business.                                                                       |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                 | 13. The merchants do not bring narrow cloth, but they bring substitutes, such as cassinets and cassimeres, and broad cloth.                                                            |
| 14. Where are the manufactures consumed?                                                                                                   | 14. None consumed, but they have hard work to get along; the \$400 clear are book accounts; we have not \$20 in cash, clear, at the end of the year—I mean exclusive of book accounts. |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                  | 15. None.                                                                                                                                                                              |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. I manufacture for the people: they find the materials, all but the dye stuffs and soap; but I get some little cash for my work.                                                    |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. I do not sell; I just work for those that bring cloth from the loom.                                                                                                               |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. About 50 per cent. duty would enable us to go on.                                                                                                                                  |
| 19. What has been the rate of your profits annually for the last three years?                                                              | 19. About \$400 yearly, but I could not raise \$200 at the present, with all that clear gain credit.                                                                                   |
| 20. Amount of capital?                                                                                                                     | 20. } Look at questions 3 and 4.                                                                                                                                                       |
| 21. Average rate of wages?                                                                                                                 | 21. }                                                                                                                                                                                  |

ALEXANDER GIBBONS, Jr.

## DOCUMENT 14.—No. 146.

*Fulling Machine, Mifflin County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Mifflin county, Pennsylvania.                                                                                                                                                |
| 2. Kind or description of the manufactory?                                                                                                 | 2. One fulling machine.                                                                                                                                                         |
| 3. Capital invested in ground and buildings?                                                                                               | 3. \$1,500, excluding the farm, worth about 1,050 dollars.                                                                                                                      |
| 5. Annual rate of profit on capital invested?                                                                                              | 5. Profit \$37 annually.                                                                                                                                                        |
| 6. Cause of the increase (or decrease, as the case may be) of profit?                                                                      | 6. Decreased, caused by the number of factories being greater.                                                                                                                  |
| 8. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?             | 8. Foreign articles \$12 worth.                                                                                                                                                 |
| 10. Number of men, women, and children, employed, and average wages of each class?                                                         | 10. Not any person but myself is employ.                                                                                                                                        |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. 12 hours per day; work about three months per year.                                                                                                                         |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. All home consumption.                                                                                                                                                       |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 13. They do to that extent that causes me almost to abandon my business.                                                                                                        |
| 14. Where are the manufactures consumed?                                                                                                   | 14. At home.                                                                                                                                                                    |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                  | 15. Not any.                                                                                                                                                                    |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. It is just given to me to dress, and then the people that bring me materials for the articles manufactured. I credit for my work generally.                                 |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. About 60 per cent.                                                                                                                                                          |
| 19. What has been the rate of your profits annually for the last three years?                                                              | 19. My trifling profit exists principally in book account, and therefore I cannot tell at present what my clear gain would be, but I do not suppose that it would overrun \$37. |

G. STRODE.

## DOCUMENT 14.—No. 146.—Part 2.

*Fulling Mill and Carding Machine, Mifflin County, West Pennsylvania.*

| QUESTIONS.                                                | ANSWERS.                                                         |
|-----------------------------------------------------------|------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated? | 1. Mifflin county, Pennsylvania.                                 |
| 2. Kind or description of the manufactory?                | 2. Fulling mill, carding machine, shearing machine; water power. |
| 3. Capital invested in ground and buildings?              | 3. The farm and buildings \$2,000                                |

[DOCUMENT 14.—No. 146—Continued.]

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. The carding machine and fulling mill \$600, cash for the purchase of materials \$20, for the payment of wages none.                                                                                                                                                                                                                                                  |
| 5. Annual rate of profit on capital invested?                                                                                              | 5. The fulling mill clears annually \$150; I do not know, for the rest of the capital, what the profit is.                                                                                                                                                                                                                                                              |
| 6. Cause of the increase (or decrease, as the case may be,) of profit?                                                                     | 6. Competition and opposition by the merchants are the causes of our decrease of profit.                                                                                                                                                                                                                                                                                |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. We have, previous to this year, manufactured something like \$4,000 worth, (that is about the value of the articles when finished,) but this year we do not expect to do so much business. Manufacture $\frac{3}{4}$ yd. cloth, flannels, linsey, and blankets: cloth worth \$1 per yard; linsey 75 cents; flannels, per yard, 50 cents; blankets 50 cents per yard. |
| 8. Quantity and value of different kinds of raw materials annually used; distinguishing between foreign and domestic products?             | 8. Wool, 5,000 lbs., at 37 $\frac{1}{2}$ cents per lb.; dye stuffs about \$50. These articles are made use of annually, (that is the quantity.)                                                                                                                                                                                                                         |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. Number of men 2, no women, no children, no wages, on account of ourselves attending to the work.                                                                                                                                                                                                                                                                    |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. We are employed from 8 to 10 hours per day, from September to May.                                                                                                                                                                                                                                                                                                  |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. All country work, and consumed at home.                                                                                                                                                                                                                                                                                                                             |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 13. They do, to a considerable extent.                                                                                                                                                                                                                                                                                                                                  |
| 14. Where are the manufactures consumed?                                                                                                   | 14. At home.                                                                                                                                                                                                                                                                                                                                                            |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. Not any.                                                                                                                                                                                                                                                                                                                                                            |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. On credit; the principal part until the people see proper to come and make payment. Barter some little, sell none for cash.                                                                                                                                                                                                                                         |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Some years back the cloth sold at 1 12 and 1 25 cents per yard, but now it sells at \$1, and has been gradually reduced to the present price, which is \$1; in fact we could not get more than 75 cents per yard in cash, but for credit we can get \$1.                                                                                                            |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. You will judge of that yourselves if you please from the present rates; but I know it will have to be more than what it is at present, or I will abandon my business.                                                                                                                                                                                               |
| 19. What has been the rate of your profits annually for the last three years?                                                              | 19. Not more than \$20 in cash, book accounts something more, perhaps \$200.                                                                                                                                                                                                                                                                                            |

SAMUEL WITHROW.

## DOCUMENT 14.—No. 147.

*Woollen Manufactory, Washington County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Washington county, Pennsylvania.                     |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Woollen factory; propelled by water.                 |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. 1820.                                                |
| 4. Capital invested in ground and buildings, and water power and in machinery?                                                                                                                                                                                                                       | 4. 4,000 dollars.                                       |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                                                     | 5. 4,400 dollars.                                       |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. 500 dollars.                                         |
| 7. Causes of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                             | 7. Decrease, owing to importation of like manufactures. |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Agriculture more productive.                         |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. 6,000 dollars.                                       |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. Domestic, except dye stuffs.                        |
| 12. Number of men, women and children employed, and average wages of each class.                                                                                                                                                                                                                     | 12. 8 men.                                              |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                     | 13. 12 hours and 10 months in the year.                 |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to market?                                                                                                                                                                                              | 16. At the manufactory.                                 |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                           | 17. Yes.                                                |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. In the county.                                      |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                             | 19. None.                                               |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                           | 20. Cash and trade; particulars not recd. lected.       |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                          | 21. Decreased 15 per cent.                              |
| 24. Is any change, necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                    | 24. Yes.                                                |

## DOCUMENT 14.—No. 148.

*Woollen Manufactory, Tioga County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Pennsylvania, Tioga county.                                                                         |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Woollen manufactory; water power; Tioga river.                                                      |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. In the year 1831; individual.                                                                       |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Twenty-two hundred dollars.                                                                         |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. Seven hundred dollars.                                                                              |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. From four to five per cent.                                                                         |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. Lately established; no change.                                                                      |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. From six to twenty per cent.                                                                        |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. Satinet, 250 yards, at 75 cents per yd.; 800 yards narrow cloth, at 1 dollar per yd.                |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. About 800 lbs. wool, at 40 cents per pound.                                                        |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. Narrow cloth is sold here from 87½ cents to \$1 per yard.                                          |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. Two men, at 12 dollars per month, and boarding; 3 children, at 6 shillings per week, and boarding. |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                     | 13. 12 hours per day, about eight months in the year.                                                  |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 14. Ten dollars per month is the common price for labor.                                               |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. Sold at the manufactory.                                                                           |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                           | 17. Foreign competition is considerable.                                                               |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. In the neighborhood.                                                                               |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                                                            | 19. None.                                                                                              |
| 20. Whether the manufacture is sold by the manufacturer for cash? and, if on credit, at what credit? if bartered, for what?                                                                                                                                                                          | 20. Some sold for cash, and some bartered for materials, and some at a credit of six months.           |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                           | 23. An increase, or at least a continuation of the present duties.                                     |



## DOCUMENT 14.—No. 159—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                            | 26. About three-sevenths of raw material, three-sevenths of labor, and one-seventh profits of capital. |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. I would be compelled to abandon the business.                                                      |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. The greater part of it would be lost entirely.                                                     |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                           | 31. Yes, a number.                                                                                     |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; and how gradual the reduction should be?                                                                                               | 34. It would require an increase of the duties to yield me six per cent.                               |

JOHN CALKINS.

## DOCUMENT 14.—No. 149.

*William Arthur's Woollen Manufactory, Washington County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Woollen; water power.                    |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. 1830.                                    |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. \$14,000.                                |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. \$3,600.                                 |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. \$1,000.                                 |
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                                | 7. Decrease for want of protection.         |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. No other business so unproductive.       |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. 6000 yards cassinets, from 75 to 80 cts. |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                                                            | 10. 4000 lbs. wool, 37½; 900 lbs. cotton, value 31½. |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                                                          | 12. Twelve hands, \$1200.                            |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                                                           | 13. Twelve hours per day, during the year.           |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. Three horses.                                    |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. 14 miles to market.                              |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. Generally in the western country.                |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Cash.                                            |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                 | 21. Decreased one-third.                             |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. From 75 to 80 cents per yard.                    |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. Change necessary.                                |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. New establishment.                               |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. Material 40; wages 27½; from 7½ to 12½.          |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent, with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                     | 29. If reduced to 12½, I would abandon the business. |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. Agriculture.                                     |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent?                                                                                                                                                                               | 31. Yes.                                             |
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                                                                                                                                                                        | 36. Much better.                                     |

## DOCUMENT 14.—No. 149—Continued.

| QUESTIONS.                                                                                  | ANSWERS.                                      |
|---------------------------------------------------------------------------------------------|-----------------------------------------------|
| 37. Proportion which the production by the American manufacturers bears to the consumption? | 37. Would soon equal, with proper protection. |
| 40. Average rate of wages?                                                                  | 40. Twelve dollars per month.                 |

WILLIAM ARTHUR

## DOCUMENT 14.—No. 150.

*Woollen Manufactory, Washington County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Washington county, Pennsylvania.                |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Woollen; water and horse power.                 |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. 1820.                                           |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. \$1,000.                                        |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. 1,200 lbs. wool and cotton; \$270.              |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. \$200.                                          |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. Low price of foreign articles of the like kind. |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. 1500 yards cassinet.                            |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. Two men, \$150.                                |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                     | 13. Twelve.                                        |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. Two horses.                                    |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. Eighteen miles.                                |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. In the State.                                  |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                             | 19. None.                                          |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                           | 20. Cash.                                          |

## DOCUMENT 14.—No. 150—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                 | ANSWERS.                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. Decreased.                    |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                       | 22. From 50 to 70 cents per yard. |

HUGH &amp; WM. HANNAH.

## DOCUMENT 14.—No. 151.

*Woollen Manufactory, Washington County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                               | 1. Washington county, Pennsylvania.                                                           |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                    | 2. Woollen; steam power.                                                                      |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                         | 4. \$2,000.                                                                                   |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                         | 5. \$4,000.                                                                                   |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory?                                                                                                                                                                            | 6. \$800.                                                                                     |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                       | 12. Twelve hands; \$150 average.                                                              |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                         | 15. One horse.                                                                                |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                               | 16. Some at the factory, but mostly at Pittsburgh.                                            |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                              | 17. They do to a great extent.                                                                |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                              | 20. Sold mostly for cash.                                                                     |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. If so reduced, we should have, we think, to abandon our business, and take to some other. |

BENJAMIN PARKER.

## DOCUMENT 14.—No. 152.

*Woollen Manufactory, Washington County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Washington county, Pennsylvania.                                                                                                |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Woollen manufactory; water power.                                                                                               |
| 3. When established; and whether a joint stock concern?                                                                               | 3. Commenced in 1830; not entirely completed till 1832; not a joint stock.                                                         |
| 4. Capital invested in ground and buildings, and water power and in machinery?                                                        | 4. Ground, buildings, and water power, \$1,000; machinery, \$600.                                                                  |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. Calculated to manufacture 8,000 weight of wool annually, and employ 4 men, 2 women, and 3 children.                             |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. In 1831, 400 yards of jeans, worth 5 cents per yard; 600 yards satinet, 60 cents per yard; 900 yards of cloth, at \$1 per yard. |
| 12. Number of men, women, and children, employed, and average wages of each class?                                                    | 12. Four men, 75 cents per day; two women, 25 cents; three children, 20 cents.                                                     |
| 13. How many hours a day employed, and what portion of the year?                                                                      | 13. Twelve hours.                                                                                                                  |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 16. From one to twenty miles.                                                                                                      |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 20. Partly for cash, partly on a credit 90 days, and partly exchanged for wool, stuffs, cotton yarn, meat, grain, &c.              |

AMOS HARVEY.

## DOCUMENT 14.—No. 153.

*Summary of the Woollen Factories, Westmoreland County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                   |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Westmoreland county, Pennsylvania.      |
| 2. Kind or description of the manufactory?                                                                                            | 2. Woollen factories.                      |
| 3. Capital invested in ground and buildings?                                                                                          | 3. \$11,500.                               |
| 4. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                      | 4. \$2,900 per annum.                      |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. \$1,000.                                |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                               | 6. No increase or decrease.                |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. \$4,000.                                |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. \$860 worth of wool, at 40 cts. per lb. |

## DOCUMENT 14.—No. 153—Continued.

| QUESTIONS.                                                                                                                 | ANSWERS.                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 9. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?             | 9. No answer.                                                                              |
| 10. Number of men, women, and children employed, and average wages of each class?                                          | 10. From 8 to 10 men, at \$18 per month, and 6 boys, at \$5 per month.                     |
| 11. How many hours a day employed, and what portion of the year?                                                           | 11. Average ten hours per day, all the year.                                               |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                  | 12. At the manufactory.                                                                    |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent? | 13. No answer by any manufacturer.                                                         |
| 14. Where are the manufactures consumed?                                                                                   | 14. In Westmoreland county.                                                                |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                  | 15. No.                                                                                    |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what? | 16. On credit; credit of six months.                                                       |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                       | 17. Satinet 75 cents per yard, white flannel 50 cts., red 62½, drabs 75, thick cloths 87½. |
| 20. Amount of capital?                                                                                                     | 20. \$1,920.                                                                               |
| 21. Average rate of wages?                                                                                                 | 21. Average wages \$14 per month.                                                          |

The above is a summary of all the woollen factories of Westmoreland county, as extracted from my notes. It does not include any of the fulling mills, or manufactures of woollen in private families: the former I have not had time to procure. I can state, generally, that there are perhaps 12 or 15 fulling mills in this county. Of these, one fuller informed me he cards 7000 lbs. of wool annually, average price 30 cents per lb., and fulls annually 3500 yards woollens, average price 75 cents per yard. His manufacture far exceeds others: perhaps the other mills average one-third the amount of this one. There are also about 25 carding machines, which card on an average 2000 lbs. wool annually.

I regret that the short time allowed has not permitted me to be more particular in this branch, and more full on all the others.

ED. JOHNSTON.

## DOCUMENT 14.—No. 154.

*Cotton Manufactory, Alleghany County, West Pennsylvania.*

| QUESTIONS.                                                                           | ANSWERS.                                                                                                                            |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Hope Cotton Factory, Shoenberger, Wrenshall & Co., Pennsylvania, Alleghany county, opposite Pittsburgh.                          |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. Spinning cotton yarns; power, steam.                                                                                             |
| 3. When established; and whether a joint stock concern?                              | 3. 1828; by three partners.                                                                                                         |
| 4. Capital invested in ground and buildings, and water power, and in machinery?      | 4. Capital at present invested in ground, is 10,000 dollars, and in buildings and machinery, 67,000 dollars: total, 77,000 dollars. |

| QUESTIONS.                                                                                                                                                                                                                                                                                                  | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>5. Average amount in materials, in cash for the purchase of materials and payment of wages?</p>                                                                                                                                                                                                          | <p>5. Of raw cotton, from 20 to 30,000 dollars; wages, 10,000 dollars, and in miscellaneous expenditures, \$5,000.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <p>6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed?</p> | <p>6. This establishment has never yet paid a cent into the pockets of any of the proprietors in the shape of dividends or profits. The profits, if any, have been steadily applied to the extension of the machinery. The mill, run past year under the most favorable circumstances, and earned, in fixed capital, that is, in the increase of machinery and buildings, about 15,000 dollars, from which, if the interest of capital invested be deducted, and a necessary allowance for wear and tear of ten per cent., it will be perceived that the proprietors are by no means exorbitantly rewarded for their enterprise; and the continual care and anxiety they encounter, under the hazardous contingencies of success or failure. It is unnecessary to state whether any part of the capital be borrowed or not, as the common interest of six per cent. only is estimated upon the whole investment. If the concern requires funds, the proprietors must pay them in, or the concern must borrow from other sources. In either case the interest must be paid by, or charged to the concern, which owes the money either to the proprietors or other lenders, as the case may be. The interest of money, being the profit on money, it matters not whether invested in bonds, banks, stocks, or manufactories; and the profits of business being the rewards of skill, enterprise, and, industry <i>superadded</i>, it is but fair that the manufacturer who combines <i>both</i> should receive an advantage equivalent, after providing a contingent fund for wear and tear, losses, &amp;c.</p> |
| <p>8. Rates of profit on capital otherwise employed in the same State and county?</p>                                                                                                                                                                                                                       | <p>8. There are no known certain rates of profit of capital employed in this country. Mere money will bring six per cent. Combine business with money, and all must depend upon care, economy, industry, good management, and <i>good luck</i>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p>9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality; and value of each kind?</p>                                                                                                                                                                | <p>9. Above 200,000 lbs. of spun cotton yarn, worth 50,000 dollars.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <p>10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?</p>                                                                                                                                                                      | <p>10. Raw cotton, 22,000 dollars; iron, paper, wood, brass, tin plate, oil, leather, coal, cloth woollen, &amp;c. &amp;c., value from 5 to 10 thousand dollars.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p>12. Number of men, women, and children, employed, and average wages of each class?</p>                                                                                                                                                                                                                   | <p>12. 11 men, average wages per week, each, \$7 30; 12 boys, ditto \$1 92; 80 girls, ditto \$1 50.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <p>13. How many hours a day employed, and what portion of the year?</p>                                                                                                                                                                                                                                     | <p>13. 11 hours generally the year round, except Saturdays, 8 hours.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                                                           | 14. We cannot answer this query as to other States or countries, but in our own neighborhood the wages of similar classes otherwise employed cannot be better than we give; because if so, they, being free agents, would leave us.                                                                                                              |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. Market principally at Pittsburgh.                                                                                                                                                                                                                                                                                                            |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                                                                 | 17. No.                                                                                                                                                                                                                                                                                                                                          |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. In Western Pennsylvania, Ohio, Kentucky, Tennessee, Missouri, Indiana, &c.                                                                                                                                                                                                                                                                   |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                                                                                                  | 19. None.                                                                                                                                                                                                                                                                                                                                        |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Our manufactured article is sold generally at a credit of four to six months, payable in cash.                                                                                                                                                                                                                                               |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased, and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                 | 21. The cost to us of our manufacture has increased within the last year, in consequence of the increased price of the raw material, (cotton,) and advance in wages.                                                                                                                                                                             |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. Average rate of spun yarn, 27 cents per pound.                                                                                                                                                                                                                                                                                               |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. The rate of duty, as now established, enables us to compete successfully with foreign efforts.                                                                                                                                                                                                                                               |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. For answer to this query, we refer to our answer to the 6th query.                                                                                                                                                                                                                                                                           |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. This is also answered, as far as we can, in the foregoing answer.                                                                                                                                                                                                                                                                            |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29 and 30. We believe it would cause us to abandon our business; and then, instead of seeking how to re-invest our capital, being mainly in ground, buildings, and machinery, it would be unsaleable and useless, and, consequently, we would have enough to do to pay our debts, and keep ourselves from a visit to the jail or the poor house. |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                  |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                              | 31. Yes, if we had any money left, after the abandonment of the protective system, we might get six per cent. by lending it.                                                                                                                                                                                                                     |



## DOCUMENT 14.—No. 154.—Continued.

| QUESTIONS.                                                                                                                                                                                  | ANSWERS.                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle? | 32. We cannot answer this.                                           |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent; and how gradual the reduction should be?                  | 34. The absurdity of this query is shown by our answer to query 6th. |

To all the subsequent queries we have nothing to say.

SHOENBERGER, WRENSHALL & CO.

## DOCUMENT 14.—No. 155.

*Cotton Factory, Alleghany County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                               | ANSWERS.                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                                | 1. Pittsburgh, Alleghany county, Pennsylvania.                                 |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                     | 2. Cotton spinning and weaving; steam power.                                   |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                                  | 3. Commenced in 1822; joint stock.                                             |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                          | 4. \$160,000.                                                                  |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                          | 5. Perhaps \$100,000.                                                          |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of the profit upon that portion which is not borrowed? | 6. Cannot say with certainty.                                                  |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                    | 9. Yarn and cotton cloth; perhaps one hundred and seventy thousand dollars.    |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                          | 10. All domestic; 1,000 bales of cotton.                                       |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                          | 11. Cannot tell.                                                               |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                        | 12. 120 females; 90 men, and 20 boys.                                          |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market; with similar articles imported?                                                                                                                                                              | 23. The present rate of duty enables us to compete with foreigners, if honest. |

ADAMS, ALLEN & Co.

## DOCUMENT 14.—No. 156.

*Pugh, Wilson, & Co.'s Cotton Factory, Fullerton, Beaver County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Pennsylvania, Beaver county.                                                                                                              |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Cotton factory; water power.                                                                                                              |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. 1825; company concern.                                                                                                                    |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. \$16,000.                                                                                                                                 |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. Materials, \$6,000; cash paid, \$6,000; wages \$3,000.                                                                                    |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. Though the business paid average profit about 20 per cent. at one period, it was a losing concern.                                        |
| 7. Cause of the increase (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                               | 7. Excessive competition and increased supply.                                                                                               |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. \$12,000; cotton yarn from 5 to 10.                                                                                                       |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. 50,000 lbs. cotton; 200 gallons oil.                                                                                                     |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. 5 men, \$7 50 per week; women and children 30, \$1 75 per week.                                                                          |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                     | 13. 12 hours, year round.                                                                                                                    |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 14. Women, \$1 50 per week; children, no employment.                                                                                         |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. None.                                                                                                                                    |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. Neighboring country.                                                                                                                     |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                           | 17. No.                                                                                                                                      |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. In the neighborhood.                                                                                                                     |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                             | 19. No.                                                                                                                                      |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                  | 29. So far as it respects the article of cotton yarn we fear no foreign competition; the home competition forbids any fears on that subject. |

## DOCUMENT 14.—No. 157.

*Woolen and Cotton Manufactory, Brighton, Beaver County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. State of Pennsylvania, Beaver county.                                                                                                                                |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Cotton spinning per water power, and weaving by hand.                                                                                                                |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. 1830; in this county; not a joint stock.                                                                                                                             |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Eighty to one hundred thousand dollars.                                                                                                                              |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. The factory not being in full operation, cannot say.                                                                                                                 |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. Competition among the manufacturers, and improvements in machinery, as well as increased knowledge of manufacturing, is the cause of a decrease in price and profit. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. No cotton; 500 lbs. indigo.                                                                                                                                         |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                     | 13. 12 hours per day, all the year.                                                                                                                                     |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. Seven horses and eight oxen.                                                                                                                                        |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. Some of the goods sold in the vicinity, some in Pittsburgh, and some in Philadelphia.                                                                               |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                           | 17. Foreign articles of like kinds do not enter into competition.                                                                                                       |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. Principally in the United States.                                                                                                                                   |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                           | 20. Sometimes cash; generally six months' credit, and bartered for imported dry goods with the merchants.                                                               |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                           | 21. Decreased in both material and labor.                                                                                                                               |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                              | 29. I would immediately abandon the business.                                                                                                                           |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                       | 30. Hard to say; but I hope I would be able to live on the farm: I think I would cultivate it.                                                                          |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent.; and how gradual the reduction should be?                                                                                                                          | 34. I believe there are few manufacturing concerns which pay more now, when a fair allowance is made for the time, attention, and risk of the proprietor—mine does not. |

JAMES PATTERSON.

## DOCUMENT 14.—No. 158.

 *Harmony Woollen and Cotton Manufactory, Beaver County, West Pennsylvania.*

## QUESTIONS.

1. State and county in which the manufactory is situated?

2. Kind or description of the manufactory, and whether water, steam, or other power?

3. When established, and whether a joint stock concern?

4. Capital invested in ground and buildings, and water power, and in machinery?

5. Average amount in materials, and in cash for the purchase of materials and payment of wages?

6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed?

7. Cause of the increase (or decrease, as the case may be,) of profit?

8. Rates of profit on capital otherwise employed in the same State and county?

9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?

## ANSWERS.

1. State of Pennsylvania, in the county of Beaver.

2. Wool and cotton; separate establishments; both steam power.

3. Established in 1826; owned by the Harmony Society in common.

4. Capital in cotton manufactory \$25,000, woollen manufactory \$30,000.

5. \$10,000 worth materials in the cotton line, \$32,000 worth materials in the woollen line, bought for cash. Amount of wages in the cotton \$3,400, in the woollen \$10,637.

6. Profit in the

| Cotton business. |              | Woollen do.  |
|------------------|--------------|--------------|
| 1827             | 15 per cent. | 14 per cent. |
| 1828             | 14           | 15           |
| 1829             | 12           | 16           |
| 1830             | 8            | 18           |
| 1831             | 12           | 14           |

7. Cause of decrease in the profits in the cotton business occasioned by great competition. Cause of increase of profit in wool, up to 1830, is the protecting tariff. Cause of decrease in 1831, great importations of foreign goods, and the extreme high prices of wool.

8. Not known.

9. 1827, Wool—

|                        |   |        |
|------------------------|---|--------|
| 197 pieces broad cloth | - | 7,424  |
| 941 do cassinets       | - | 13,193 |
| 1,230 do flannel       | - | 13,000 |
| 461 pair blankets      | - | 2,064  |

\$35,681

Cotton—

|                                 |   |        |
|---------------------------------|---|--------|
| 1,500 pieces 4-4 brown sheeting | - | 6,173  |
| 61,367 lbs. cotton yarn         | - | 16,792 |

\$22,965

1828, Wool—

|                        |   |        |
|------------------------|---|--------|
| 391 pieces broad cloth | - | 13,323 |
| 841 do cassinets       | - | 12,174 |
| 1,233 do flannel       | - | 12,954 |
| 425 pair blankets      | - | 1,948  |

\$40,399

Cotton—

|                                 |   |        |
|---------------------------------|---|--------|
| 1,339 pieces 4-4 brown sheeting | - | 5,006  |
| 63,460 do cotton yarn           | - | 17,366 |

\$22,372

1829, Wool—

|                        |   |        |
|------------------------|---|--------|
| 484 pieces broad cloth | - | 17,141 |
| 1,512 do cassinets     | - | 25,142 |
| 1,312 do flannel       | - | 14,190 |
| 216 pair blankets      | - | 900    |

\$57,483

| QUESTIONS.                                                                                                                        | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                   | <b>Cotton—</b><br>1,165 pieces brown sheeting - \$ 2,42<br>65,212 lbs. cotton yarn - 16,086<br><b>\$19,47</b><br><b>1830, Wool—</b><br>443 pieces broad cloth - 16,385<br>2,114 do cassinets - 36,629<br>1,461 do flannel - 15,079<br>536 pair blankets - 2,719<br><b>\$70,94</b><br><b>Cotton—</b><br>1,208 pieces sheeting - 3,985<br>60,233 lbs. cotton yarn - 13,213<br><b>\$16,808</b><br><b>1831, Wool—</b><br>673 pieces broad cloth - 26,663<br>2,300 do cassinets - 41,445<br>1,217 do flannels - 14,300<br>381 pair blankets - 2,173<br><b>\$84,571</b><br><b>Cotton—</b><br>1,323 pieces sheeting - 4,322<br>57,936 lbs. cotton yarn - 14,348<br><b>\$18,770</b> |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?   | 10. Aver. 86,416 lbs. Ala. cotton \$4,38<br>237 galls. sperm oil 27<br>Do 60,758 lbs. clean wool 31,736<br>850 galls. sp. & olive oil 98<br>Dye stuffs - 4,820                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                   | 11. Not known.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 12. Number of men, women, and children employed, and average wages of each class?                                                 | 12. Woollen factory employs 50 men, at \$3 50 per week; 15 boys, at \$2 50; 15 females, at \$1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 13. How many hours a day employed; and what portion of the year?                                                                  | 13. Average 12 hours per day the whole year, except one week in harvest.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 14. Rate of wages of similar classes otherwise employed in the same State and country, in other States, and in foreign countries? | 14. Men, at common labor, from 2 to \$5 per week; females at \$1, in same State and county.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 15. Number of horses or other animals employed?                                                                                   | 15. One 4 horse team for both factories.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                         | 16. Partly sold at home, and partly sent off 18 to 500 miles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?        | 17. Foreign cloths and flannels enter into competition to a large extent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 18. Where are the manufactures consumed?                                                                                          | 18. In Pennsylvania, Maryland, Virginia, Ohio, Kentucky, Indiana, and Illinois.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                          | 19. No goods from this manufactory are exported to foreign countries.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?        | 20. Generally sold on a credit of 6 months.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased, and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                 | 21. The cost of manufactured articles has increased in consequence of the rise in wool, say 10 per cent. in 1830, and 20 per cent. in 1831.                                                                                                                                                                                                 |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. Average price of manufactures:<br>Bro. cloths. Casinets. Flannels. Blankets.<br>1827, \$3 00 60 35 4 75 p. y.<br>1828, 3 00 60 35 4 75<br>1829, 2 75 60 35 4 75<br>1830, 2 87½ 60 35 5 00<br>1831, 3 00 68 38 5 50<br>Cotton yarn and brown sheeting:<br>1827, 27 13 cents.<br>1828, 27 11½<br>1829, 24½ 9<br>1830, 22 9<br>1831, 25 10 |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. The present rate of duty is sufficient if strictly enforced, and smuggling prevented.                                                                                                                                                                                                                                                   |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. None.                                                                                                                                                                                                                                                                                                                                   |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. See answer to query 8.                                                                                                                                                                                                                                                                                                                  |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. Cotton materials 50 per cent., labor 38, profit 12; wool materials 55 per cent., labor 30, profit 15.                                                                                                                                                                                                                                   |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. This manufactory not being a distinct concern, no separate account is kept of agricultural and other domestic productions consumed by the manufacturers.                                                                                                                                                                                |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29. It would cause me to abandon the business immediately.                                                                                                                                                                                                                                                                                  |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. In agriculture and grazing.                                                                                                                                                                                                                                                                                                             |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                              | 31. Agriculture, or almost any other pursuit.                                                                                                                                                                                                                                                                                               |

| QUESTIONS.                                                                                                                                                                                                       | ANSWERS.                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                      | 32. Salt and iron are dependant on protection in a great measure.                                          |
| 33. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum? | 33. Not prepared to answer.                                                                                |
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                                              | 36. The operation would be extremely beneficial, provided the imported goods were valued in our own ports. |

ECONOMY, April 14, 1832.

FREDERICK RAPP,  
Per R. L. BAKER.

## DOCUMENT 14.—No. 159.

*Theophilus Kochler's Cotton Manufactory, Centre County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Pennsylvania, Centre county.                                                                                                                                    |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Cotton manufactory; water power, is an individual concern.                                                                                                      |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Some years hence, but seldom carried on, until last June it fell into my hands, &c.                                                                             |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Not being the owner of ground and buildings, therefore cannot tell; but in the latter about \$2,000.                                                            |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. About two thousand five hundred dollars.                                                                                                                        |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6 & 7. Cannot speak in favor of profit, having spent considerable in the operation since last June, owing to the hands employed not being skilled in this pursuit. |
| 7. Causes of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                               |                                                                                                                                                                    |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Cannot say positively.                                                                                                                                          |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. Single, and double, and twisted yarn, to amount of \$1,500; the former at 23 cents per lb., the latter at 37½ cents per lb.                                     |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. 5,300 lbs. Raw cotton, American product, at 11½ cents per lb., value \$600.                                                                                    |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                                                            | 11. Have no accurate knowledge of the present price current of the foreign article.                          |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                                                          | 12. One man at \$1 25 per day, one man at \$1 per day, and 6 girls each at 25 cents per day.                 |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                                                           | 13. Twelve hours, according to regulation, throughout the year.                                              |
| 14. Rate of wages of similar classes otherwise employed in the same State and country, in other States, and in foreign countries?                                                                                                                                                                                                          | 14. The same wages to experienced hands in this State.                                                       |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. One horse.                                                                                               |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. In this and the neighboring counties at the distance of 60 miles.                                        |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                                                                 | 17. Cannot say yet to what extent.                                                                           |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. See query 16.                                                                                            |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                                                                   | 19. None.                                                                                                    |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. For cash, six months' credit, and marking for support of hands, &c.                                      |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                 | 21. In the commencement the increase of cost has been in the labor only, but of late in labor and materials. |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. Referred to in query 9.                                                                                  |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition, in the home market with similar articles imported?                                                                                                                                                                                                | 23. As established by law.                                                                                   |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. Not according to any presumption.                                                                        |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. See query 6 and 7.                                                                                       |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. See answers to the queries on this subject above.                                                        |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. About \$1,000.                                                                                           |
| 28. What quantity or amount of manufactures, such as you make, are produced in the                                                                                                                                                                                                                                                         | 28. Cannot state accurately.                                                                                 |



| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| United States, and what amount in your own State?                                                                                                                                                                                                                       |                                                                                       |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Beyond question abandon this business.                                            |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. Perhaps in buying and selling goods, or a more encouraging manufacturing pursuit. |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                           | 31. Cannot say now.                                                                   |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                             | 32. Not as regards this section of country.                                           |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                            | 33. See query 4 and 5.                                                                |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; and how gradual the reduction shall be?                                                                                                | 34. As my capital is now employed, it will bear no reduction.                         |
| 35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum?                                                        | 35. Cannot answer at this moment.                                                     |
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                                                                                                     | 36. Not aware of the extent of supposed fraud.                                        |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                                                                             | 37. Could sell more in the same circle if manufactured here.                          |
| 38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?                                                                                                                                        | 38. The extent and increase is great, but cannot give a proper estimate.              |
| 39. Average profit of money or capital in the United States?                                                                                                                                                                                                            | 39. Cannot say.                                                                       |
| 40. Average rate of wages?                                                                                                                                                                                                                                              | 40. Am also not aware.                                                                |

May 4, 1832.

THEOPHILUS KECHLIN

## DOCUMENT 14.—No. 160.

*Cotton Manufactory, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                                           | ANSWERS.                                                                             |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. State of Pennsylvania, Fayette county.                                            |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. Cotton manufactory; steam power.                                                  |
| 3. When established; and whether a joint stock concern?                              | 3. Joint stock.                                                                      |
| 4. Capital invested in ground and buildings, and water power, and in machinery?      | 4. Twelve thousand dollars.                                                          |
| 12. Number of men, women, and children employed, and average wages of each class?    | 12. 22 females, average wages \$1 25 per week; 6 men, average wages \$7 50 per week. |
| 13. How many hours a day employed, and what portion of the year?                     | 13. 12 hours; whole year.                                                            |

H. STEWART &amp; CO.

## DOCUMENT 14.—No. 161.

*Steel Manufactory, Alleghany County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Alleghany county, State of Pennsylvania.                                         |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Steel manufactory; "steam power."                                                |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. In 1838.                                                                         |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Sixteen thousand dollars.                                                        |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. Fourteen thousand four hundred dollars.                                          |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. Not any borrowed.                                                                |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. Sixteen thousand dollars; blister, shear and cast steel, equal to that imported. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. Two tons of iron weekly, (domestic.)                                            |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. Blister, 18 cents; shear, 20 cents; cast, 20 cents; from England.               |
| 12. Number of men, women, and children employed; and average wages of each class?                                                                                                                                                                                                                    | 12. Myself and three sons. <sup>b</sup>                                             |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                     | 13. Ten hours per day "regularly."                                                  |

## DOCUMENT 14.—No. 161.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                         | 15. None.                                                                                                                          |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                               | 16. At home and abroad.                                                                                                            |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                              | 17. They do, everywhere; Nailor & Co. have reduced their Steel everywhere that my Steel comes in competition with them, (English.) |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                | 18. Everywhere.                                                                                                                    |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                               | 19. None exported.                                                                                                                 |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                              | 20. Bartered for iron, and cash at six months' credit.                                                                             |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?              | 21. Since 1828, increased, (hammered iron.)                                                                                        |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                              | 23. Three cents per pound.                                                                                                         |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Certainly not.                                                                                                                 |
| 36. What would be the operation of this change upon the frands at present supposed to be practised?                                                                                                                                                                     | 36. Answered to query "37."                                                                                                        |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                                                                             | 37. One five-hundredth part.                                                                                                       |
| 40. Average rate of wages?                                                                                                                                                                                                                                              | 40. One dollar per day.                                                                                                            |

May 21, 1832.

SIMEON BROADMEADOW.

## DOCUMENT 14.—No. 162.

*Salt Manufactory, Alleghany County, West Pennsylvania.*

| QUESTIONS.                                                                           | ANSWERS.                                    |
|--------------------------------------------------------------------------------------|---------------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. State of Pennsylvania, Alleghany county. |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. Salt.                                    |

## DOCUMENT 14.—No. 162—Continued.

| QUESTIONS.                                                                                      | ANSWERS.                        |
|-------------------------------------------------------------------------------------------------|---------------------------------|
| 4. Capital invested in ground and buildings, and water power, and in machinery?                 | 4. \$6,000.                     |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages? | \$2,500 for coal.               |
| 12. Number of men, women, and children employed; and average wages of each class?               | 12. Five men at \$17 per month. |
| 15. Number of horses or other animals employed?                                                 | 15. Three horses.               |

JAMES M'DONALD.

## DOCUMENT 14.—No. 163.

*'Salt Manufactory, Alleghany County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. State of Pennsylvania, Alleghany county.            |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Salt.                                               |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. 1826; not joint stock.                              |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. \$8,000.                                            |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. \$3,600 for coal.                                   |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. Six per cent.                                       |
| 7. Causes of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                               | 7. Quantity in market.                                 |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. 32,000 bushels annually.                            |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. Seven men, average wages \$17 per month.           |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                     | 13. Average 12 hours per day.                          |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. Five horses.                                       |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. At Pittsburgh.                                     |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                 | 22. From \$1 25 to \$3 per barrel; 5 bushels, 280 lbs. |

## DOCUMENT 14.—No. 163.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. No profits for the last three years, hope for better times. |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent, with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                     | 29. I would abandon the business.                               |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. Not in salt.                                                |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to twelve and a half per cent?                                                                                                                                                                 | 31. Any other business.                                         |

GEO. AMHUTZ, Jr.

## DOCUMENT 14.—No. 164.

*Salt Manufactory, Alleghany County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                           |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Pennsylvania, Alleghany county. |
| 2. Kind or description of the manufactory?                                                                                            | 2. Salt; steam power.              |
| 3. Capital invested in ground and buildings?                                                                                          | 3. \$3,000.                        |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. \$3,700.                        |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Uncertain.                      |
| 6. Cause of the increase (or decrease, as the case may be) of profit?                                                                 | 6. Can't say.                      |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. 10,500 bushels.                 |
| 9. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                        | 9. Don't know.                     |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. Four men.                      |

## DOCUMENT 14.—No. 164—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                        |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. Day and night, alternately. |
| 12. Whether the manufactures find a market at the manufactory? If not, how far are they sent to market?                                    | 12. To Pittsburgh, 14 miles.    |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 13. Don't know of any.          |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the country.             |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                  | 15. None.                       |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. For cash.                   |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Various; 40 cents average.  |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. The duty of 1828.           |
| 19. What has been the rate of your profits annually for the last three years?                                                              | 19. Can't tell.                 |
| 21. Average rate of wages?                                                                                                                 | 21. \$16 per month.             |

WM. CAVEN.

## DOCUMENT 14.—No. 165.

*Salt Manufactory, Alleghany County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Alleghany county, State of Pennsylvania.                        |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Salt. Steam power.                                              |
| 3. When established; and whether a joint stock concern?                                                                               | 3. 1827. Individual.                                               |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                       | 4. Ten thousand dollars.                                           |
| 7. Cause of the increase (or decrease, as the case may be,) of profit?                                                                | 7. Competition; the demand not equal to the quantity manufactured. |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                        | 8. Glut in market. Works stop.                                     |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. Fifteen thousand bushels.                                       |
| 12. Number of men, women, and children employed, and average wages of each class?                                                     | 12. Eight men, \$17 per month.                                     |
| 13. How many hours a day employed, and what portion of the year?                                                                      | 13. Night and day, 250 days.                                       |

| QUESTIONS.                                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                        | 15. Six horses.                                                                                                                                                                  |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                              | 16. Part at works, residue at Pittsburgh, six miles, and down the river as far as Nash-ville.                                                                                    |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                             | 17. No foreign competition here, but the reduction of duty has and will curtail the demand down the river.                                                                       |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                             | 20. Every way.                                                                                                                                                                   |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?             | 21. Uniform, except in wages.                                                                                                                                                    |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                   | 22. Forty to sixty cents per bushel.                                                                                                                                             |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                             | 23. Before the reduction of duty we expected to compete with the foreign article, when the canal was completed; this hope is now abandoned, and a number of the works must stop. |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent, with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. The business now a poor one; this would be ruinous to our manufactures generally.                                                                                            |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                         | 30. Have thought of this, but not come to a conclusion.                                                                                                                          |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                            | 32. I believe those articles free of duty, when our canals are in operation, would compete at our works.                                                                         |

PITTSBURGH, 9th May, 1832.

BOYLE IRWIN.

## DOCUMENT 14.—No. 166.

*Salt Works, Armstrong County, West Pennsylvania.*

| QUESTIONS.                                                                           | ANSWERS.                                                                                                                                                                        |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. I manufacture salt on both sides of the Kiskiminetas river, in the counties of Westmoreland and Armstrong, Pennsylvania.                                                     |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. There are from 18 to 20 salt wells worked by me; at each well there is a small steam engine to raise the water; one of them also drives a steam mill with two run of stones. |

## DOCUMENT 14.—No. 166—Continued.

## QUESTIONS.

## ANSWERS.

3. When established; and whether a joint-stock concern?

4. Capital invested in ground and buildings, and water power, and in machinery?

5. Average amount in materials, and in cash for the purchase of materials and payment of wages?

6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed?

7. Cause of the increase (or decrease, as the case may be) of profit?

9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?

11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?

12. Number of men, women, and children employed, and average wages of each class?

13. How many hours a day employed; and what portion of the year?

14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?

15. Number of horses or other animals employed?

16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?

17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?

18. Where are the manufactures consumed?

19. Whether any of the manufactures are exported to foreign countries? and if so, where?

3. The first well on the Kiskiminetas was established in 1820; they have been since increased to 50. The 20 I work are now the property of Gen. R. I. Stewart, of Pittsburgh.

4. The capital invested in the above 20 wells is \$ 100,000; the other wells in the same proportion, about \$ 5,000 to each well.

5. There is about 100 lbs. of sheet copper used for tubes in each well; all other materials used are the produce of Pennsylvania, to wit: wood, wrought iron, and cast iron.

6. These salt wells, or any other in Pennsylvania, have not averaged since their commencement more than twelve per cent. clear profit.

7. The competition has decreased the profits, and that with the reduction of duty will, before one year, reduce it to six per cent., and in many instances to nothing, (a loss.)

9. These 20 wells manufacture 150,000 bushels of salt annually, a pound of which is equal to a pound of any imported salt when it has the same age: the price at the works for the last four years has been 35 cents per bushel of 56 pounds; in 1826 and 1827 it was sold for 25 cents; and, owing to the reduction of the duty and competition, it will soon be that price again.

11. Imported salt sells in all the seaport towns from 45 to 50 cents per bushel.

12. The 20 wells I work employ about 160 men, and feed and clothe 600 men, women, and children. Coal diggers receive one dollar per day, and salt boilers \$ 17 per month.

13. The salt works go night and day (Sundays excepted); the boilers work each twelve hours.

14. Farmers do not pay by three dollars per month as high wages; iron works the same as salt works.

15. Very few horses; not more than four at twenty wells.

16. One half the salt manufactured in Western Pennsylvania is sent down the Ohio to Virginia, Ohio, Kentucky, Tennessee, Indiana, Missouri, &c.

17. Since the reduction of duty on foreign salt it meets the domestic salt higher up the Ohio than formerly, and affects the price.

18. Stated above.

19. None.



| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Some salt is sold for cash, but generally on a credit of two to six months; almost the whole disposed of at the works is for barter, for wheat, flour, corn, meat, potatoes, dry apples, and other different vegetables, and butter, &c.                                                                                            |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                 | 21. The cost of the manufacture of salt has decreased principally in the material and improvement in the manner of manufacturing.                                                                                                                                                                                                       |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. 1816 and 1817 boiler iron in Pittsburgh was \$ 280 per ton, and castings seven cents per pound; they are both reduced to half the price.                                                                                                                                                                                            |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. The former duty of 30 cents per bushel on salt will enable the manufacturers in Pennsylvania to meet foreign near Philadelphia, say at Harrisburgh, if not further east. When the canal and railroad are finished, all the valleys of the Ohio and Mississippi could be supplied at not more than 50 cents per bushel of 50 pounds. |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. This answered to No. 6.                                                                                                                                                                                                                                                                                                             |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. All the materials used in the manufacture of salt are the produce of the United States, except some copper for tubes, and it is expected plenty of that article is also to be found.                                                                                                                                                |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. The manufactures may have 12 per cent. profit; the balance is all expended in labor, wear and tear of the materials of the works: the salt water, and stone coal for fuel, are all taken from the bowels of the earth.                                                                                                              |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                       | 28. There are not less than 500,000 bushels of salt annually manufactured in the western part of Pennsylvania, and for the last five years sold at the works for thirty-five cents per bushel of 56 pounds.                                                                                                                             |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29. If the entire duty should be taken off imported salt, and the price fall in proportion in the seaport towns, all the American manufactures must stop.                                                                                                                                                                               |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. I have no capital, as the flood on the 9th February last, 1838, destroyed 15,000 barrels of salt, and other damage, in all to amount of \$ 35,000: this took all my means and more.                                                                                                                                                 |

## DOCUMENT 14.—No. 166—Continued.

## QUESTIONS.

## ANSWERS.

31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to twelve and a half per cent.?

31. If it was not for the slaves in the south, I would go there and make cotton or sugar, as that I believe the most profitable business in the United States; but if the duty is to be further reduced on salt and iron, I would prefer going to Canada.

32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?

32. The market for American iron and salt extends from the seaport town at the east to Nashville and St. Louis in the west; so that imported iron and salt must and will materially injure, if not entirely ruin, all the American manufacturers of these articles, if the duty is taken off.

The balance of the questions I cannot pretend to answer correctly.

ANDREW BOGGS.

KIRKMINETAS, PA. April 5, 1832.

N. B. I send you this as I received it.

EDWARD JOHNSTON.

## DOCUMENT 14.—No. 167.

*Salt Manufactory, Armstrong County, West Pennsylvania.*

## QUESTIONS.

## ANSWERS.

1. State and county in which the manufactory is situated?

1. State of Pennsylvania, Armstrong county.

2. Kind or description of the manufactory?

2. Salt manufactory.

3. Capital invested in ground and buildings?

3. \$4,000.

4. Average amount in materials, and in cash for the purchase of materials and payment of wages?

4. \$2,200.

5. Annual rate of profit on the capital invested?

5. 9 per cent.

7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?

7. 1,600 barrels of salt at \$1 90 per barrel.

10. Number of men, women, and children employed, and average wages of each class?

10. Four men at \$23 per month.

11. How many hours a day employed; and what portion of the year?

11. 12 hours per day, and 10 months of the year.

12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?

12. From two to seven hundred miles.

14. Where are the manufactures consumed?

14. In the States of Ohio, Virginia, and Pennsylvania.

15. Whether any of the manufactures are exported to foreign countries? and, if so, where?

15. None exported.

## DOCUMENT 14.—No. 167—Continued.

| QUESTIONS.                                                                                                                   | ANSWERS.        |
|------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on a credit, at what credit? if bartered, for what? | 16. Cash.       |
| 19. What has been the rate of your profits, annually, for the last three years?                                              | 19. 5 per cent. |
| 20. Amount of capital?                                                                                                       | 20. \$6,200.    |
| 21. Average rate of wages?                                                                                                   | 21. \$23.       |

DAVID KISLER &amp; Co.

## DOCUMENT 14.—No. 168.

*Salt Manufacture, Armstrong County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                               |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Pennsylvania, Armstrong county.            |
| 2. Kind or description of the manufactory?                                                                                            | 2. Salt manufactory.                                   |
| 3. Capital invested in ground and buildings?                                                                                          | 3. \$4,000.                                            |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. \$2,200.                                            |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. 14 per cent.                                        |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. 1,800 barrels of salt at or worth \$10 per barrel.  |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. 4 men at \$24 each, per month.                     |
| 11. How many hours a day employed; and what portion of the year?                                                                      | 11. 12 hours per day, and 10 months of the year.       |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. From 2 to 6 hundred miles.                         |
| 14. Where are the manufactures consumed?                                                                                              | 14. In the States of Ohio, Pennsylvania, and Kentucky. |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                             | 15. None exported.                                     |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 16. Cash.                                              |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                  | 17. Four years since sold for \$2 50.                  |
| 19. What has been the rate of your profits, annually, for the last three years?                                                       | 19. 10 per cent.                                       |
| 20. Amount of capital?                                                                                                                | 20. \$6,000.                                           |
| 21. Average rate of wages?                                                                                                            | 21. \$24.                                              |

D. BRENNEMAN &amp; Co.

## DOCUMENT 14.—No. 169.

*Salt Manufactory, Armstrong County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Pennsylv'a, Armstrong county.                                      |
| 2. Kind or description of the manufactory?                                                                                            | 2. Salt manufactory.                                                           |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Four thousand dollars.                                                      |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Two thousand dollars.                                                       |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Eleven per cent.                                                            |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Sixteen hundred barrels of salt, best quality, of the value of \$1 80 each. |
| 10. Number of men, women, and children, employed, and average wages of each class?                                                    | 10. Four men at \$20 50, each, per month.                                      |
| 11. How many hours a day employed, and what portion of the year?                                                                      | 11. Twelve hours per day, and ten months of the year.                          |
| 12. Whether the manufacturers find a market at the manufactory? If not, how far they are sent to a market?                            | 12. From five to seven hundred miles.                                          |
| 14. Where are the manufactures consumed?                                                                                              | 14. In the States of Pennsylvania, Ohio, Kentucky and Virginia.                |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 15. None exported.                                                             |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 16. Cash.                                                                      |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                  | 17. Three years since salt sold at \$2 50 per barrel.                          |
| 19. What has been the rate of your profits annually for the last three years?                                                         | 19. Nine per cent.                                                             |
| 20. Amount of capital?                                                                                                                | 20. Six thousand dollars.                                                      |
| 21. Average rate of wages?                                                                                                            | 21. Twenty dollars and fifty cents.                                            |

D. BRENNEMAN &amp; Co.

## DOCUMENT 14.—No. 170.

*Henry S. Weaver's Salt Works, Armstrong County, West Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.                                  |
|-------------------------------------------------------------------------------------------------|-------------------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. State of Pennsylv'a, Armstrong county. |
| 2. Kind or description of the manufactory?                                                      | 2. Salt manufactory.                      |
| 3. Capital invested in ground and buildings?                                                    | 3. Four thousand dollars.                 |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 4. Eighteen hundred dollars.              |

## DOCUMENT 14.—No. 170—Continued.

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Twenty-eight per cent.                                                                          |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Thirteen hundred barrels, best quality, at \$2 25 per barrel.                                   |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. Four men at \$23, each, per month.                                                             |
| 11. How many hours a day employed, and what portion of the year?                                                                      | 11. Twelve hours per day, and nine months of the year.                                             |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. From thirty to five hundred miles, in the States of Pennsylvania, Ohio, Virginia and Kentucky. |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?            | 13. None.                                                                                          |
| 14. Where are the manufactures consumed?                                                                                              | 14. In the States of Pennsylvania, Ohio, Virginia and Kentucky.                                    |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                             | 15. None exported.                                                                                 |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 16. Cash.                                                                                          |
| 20. Amount of capital?                                                                                                                | 20. Six thousand dollars.                                                                          |
| 21. Average rate of wages?                                                                                                            | 21. Twenty-three dollars.                                                                          |

HENRY S. WEAVER

## DOCUMENT 14.—No. 171.

*Hugh Bigham's Salt Works, Armstrong County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Pennsylvania, Armstrong county.                                           |
| 2. Kind or description of the manufactory?                                                                                            | 2. Salt manufactory.                                                                  |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Five thousand dollars.                                                             |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Two thousand dollars.                                                              |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Twelve per cent.                                                                   |
| 6. Cause of the increase (or decrease, as the case may be) of profit?                                                                 | 6. Decrease of the profit occasioned by the duty having been taken off salt imported. |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. One thousand four hundred barrels, at \$1 80.                                      |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. Six men at \$21 each per month.                                                   |

DOCUMENT 14.—No. 171—Continued.

| QUESTIONS.                                                                                                                 | ANSWERS.                                                                        |
|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| 11. How many hours a day employed, and what portion of the year?                                                           | 11. Twelve hours per day, and nine months of the year.                          |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                  | 12. Six hundred miles.                                                          |
| 14. Where are the manufactures consumed?                                                                                   | 14. In the States of Pennsylvania, (western part,) Ohio, Kentucky and Virginia. |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                  | 15. None exported.                                                              |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what? | 16. At a credit of from two to six months.                                      |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                       | 17. Four years since at \$2 50.                                                 |
| 19. What has been the rate of your profits, annually, for the last three years?                                            | 19. Twelve per cent.                                                            |
| 20. Amount of capital?                                                                                                     | 20. Seven thousand dollars.                                                     |
| 21. Average rate of wages?                                                                                                 | 21. Twenty-one dollars.                                                         |

HUGH BIGHAM.

DOCUMENT 14.—No. 172.

*Francis M. Thompson's Salt Works, Armstrong County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                              |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Pennsylv'a, Armstrong county.             |
| 2. Kind or description of the manufactory?                                                                                            | 2. Salt establishment.                                |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Four thousand dollars.                             |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Twelve hundred dollars.                            |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. No profit.                                         |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Six hundred barrels of salt, at \$2 per barrel.    |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. Four men at \$23 per month, each.                 |
| 11. How many hours a day employed; and what portion of the year?                                                                      | 11. 12 hours per day, and 11 months of the year.      |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. Sent about four hundred miles.                    |
| 14. Where are the manufactures consumed?                                                                                              | 14. In the States of Ohio, Virginia and Pennsylvania. |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 15. None exported.                                    |

## DOCUMENT 14.—No. 173—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                    |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Cash.                   |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Two dollars per barrel. |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. None.                   |
| 20. Amount of capital?                                                                                                                     | 20. Four thousand dollars.  |

FRANCIS M. THOMPSON.

## DOCUMENT 14.—No. 173.

*Salt Manufactory, Sharon, Beaver County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Beaver county, State of Pennsylvania.                      |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Salt manufactory; steam for pumping.                       |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Fall of 1829; individual.                                  |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Six thousand dollars.                                      |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                                                     | 5. Expense per day for materials and labor, 8 dollars.        |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. No profits; no capital borrowed.                           |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. Water too weak.                                            |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. 1,000 barrels annually, sold for three dollars per barrel. |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. Seven men, average wages 18 dollars per month.            |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                     | 13. Twelve hours all the year.                                |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. Five horses.                                              |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. Sold at the manufactory.                                  |

## DOCUMENT 14.—No. 173.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                              | 17. No foreign competition.        |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                | 18. At home.                       |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                | 19. No exportation.                |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                              | 20. Exchanged for country produce. |
| 21. Whether the cost of the manufactured article (to the manufacturer,) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?            | 21. No change.                     |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Give it up.                    |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. Farming.                       |

M. ADAMS.

## DOCUMENT 14.—No. 174.

*Salt Manufactory, Butler County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                          | ANSWERS.                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                           | 1. Butler county, Pennsylvania, at Harmony.          |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                | 2. Salt; steam power to pump the water, 428 feet.    |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                             | 3. 5 years since; a joint stock.                     |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                     | 4. Ten thousand dollars.                             |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                     | 5. Payment of wages, \$175 per month.                |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. Profit, \$3,440 per annum, exclusive of interest. |



## DOCUMENT 14.—No. 174—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                                                      | 9. 13,000 bushels salt per annum, \$6 1/2 to the bushel.            |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                                                          | 12. 10 men per day, at 17 1/2 dollars per month.                    |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                                                           | 13. 12 hours a day the whole year.                                  |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                                                           | 14. Persons otherwise employed receive 13 dollars per month.        |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. 1 horse.                                                        |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. Market at the works.                                            |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                                                                 | 17. No foreign salt is sold here.                                   |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. In the country around the works.                                |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                                                                                                  | 19. None exported.                                                  |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Cash and agricultural products.                                 |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                | 21. A slight increase in the price of labor, about 12 1/2 per cent. |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. Average sales are 60 cents per bushel.                          |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. The present duty is low enough.                                 |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. \$3,440 per annum; no dividends made.                           |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. Difficult to answer.                                            |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. Two-thirds of the whole expense is agricultural products.       |

## DOCUMENT 14.—No. 174—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. We would abandon the business if the price should be reduced. |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                             | 32. Out of foreign competition perhaps 150 miles.                 |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                            | 33. The works support themselves.                                 |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                                                                             | 37. All American.                                                 |

March 10, 1832.

For ISAAC WILSON.  
D. & J. WILSON.

## DOCUMENT 14.—No. 175.

*Wm. McFarland's Salt Manufactory, Indiana County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Indiana county, Pennsylvania.                                                                                                               |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Salt manufactory, by boiling.                                                                                                               |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Established in 1801; individual concern.                                                                                                    |
| 4. Capital invested in ground and buildings, and water power and in machinery?                                                                                                                                                                                                                       | 4. Seven thousand dollars.                                                                                                                     |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. Copper and iron are almost the only materials used in erecting salt works, the value of which about \$1,500, wages \$1,600 per annum.       |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. Owing to low prices of salt, and frequent failure of wells, few persons in this section of country have realized any thing beyond a living. |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. Strong or weak water.                                                                                                                       |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Not easily ascertained, varying from 5 to 15 per cent.                                                                                      |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. About 18,000 bushels per annum.                                                                                                             |

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                         | 10. Salt water and coal, both of which on the lands attached.                                                                                                                                                                                                                                                             |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                         | 11. Foreign salt would cost, at present, Pittsburgh, about \$1 per bushel.                                                                                                                                                                                                                                                |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                       | 12. Seven men, at 87½ cents per day.                                                                                                                                                                                                                                                                                      |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                        | 13. Twelve hours per day, throughout the year.                                                                                                                                                                                                                                                                            |
| 14. Rate of wages of similar classes otherwise employed in the same State and country, in other States, and in foreign countries?                                                                                                                                       | 14. Varying from 50 cents per day to \$1, including board.                                                                                                                                                                                                                                                                |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                         | 15. Three horses.                                                                                                                                                                                                                                                                                                         |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                               | 16. About one-sixth sold at home, the balance sent to the towns on the Ohio, Nashville, Tenn., Florence, Ala., St. Louis, Mo., &c.                                                                                                                                                                                        |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                              | 17. In consequence of prejudice in the eastern market, the salters of provisions in the west are obliged to use a portion of foreign salt, (generally Turks' Island,) which has the effect of lessening the demand for the domestic article, though the foreign is generally rated from 25 to 50 cents per bushel higher. |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                    | 22. In 1822 salt was worth at the west 75 cents per bushel; it is now held at \$1, he will not, at present, net over 20, when sent to any of the markets down the Ohio, which is owing principally to domestic competition.                                                                                               |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                              | 23. At the present prices of foreign salt on the sea-board, (40 to 45 cents,) a duty of 20 or 25 cents would enable the manufacturers here to send their salt as far east as Philadelphia, as soon as the Pennsylvania canal is completed.                                                                                |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                            | 26. The raw materials cost nothing, but the wages paid for labor, and the value of cost of the land belonging to the establishment.                                                                                                                                                                                       |
| 28. What quantity or amount of manufactures, such as you make, are produced in the U. States, and what amount in your own State?                                                                                                                                        | 28. I should estimate the quantity of salt made in Western Pennsylvania at from five to six hundred thousand bushels.                                                                                                                                                                                                     |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make, were reduced to 12½ per cent, with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Should the present price of salt continue, (say to net but 20 cents,) it would be unprofitable to me, and a sinking business in two-thirds engaged, who have not such good wells.                                                                                                                                     |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                             | 32. The salt manufactories are generally remote from the sea-board, yet the foreign salt meets the domestic at Lewistown, Penn., as far up the Ohio as Cincinnati: a reduction of duty would necessarily circumscribe the market for domestic salt.                                                                       |

## DOCUMENT 14.—No. 176.

*Salt Manufactory, Indiana County, West Pennsylvania.*

## QUESTIONS.

1. State and county in which the manufactory is situated?

2. Kind or description of the manufactory, and whether water, steam, or other power?

3. When established, and whether a joint stock concern?

4. Capital invested in ground and buildings, in water power and in machinery?

5. Average amount in materials, and in cash for the purchase of materials and payment of wages?

6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed?

7. Cause of the increase, (or decrease, as the case may be,) of profit?

8. Rates of profit on capital otherwise employed in the same State and county?

9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?

10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?

11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?

12. Number of men, women, and children employed, and average wages of each class?

13. How many hours a day employed, and what portion of the year?

14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?

15. Number of horses or other animals employed?

16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?

17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?

19. Whether any of the manufactures are exported to foreign countries? and if so, where?

## ANSWERS.

1. Indiana county, Pennsylvania.

2. Salt, manufactured by boiling.

3. Established in 1822; individual concern.

4. Seven thousand dollars.

5. Iron and copper are almost the only materials, and the amount used in erecting my manufactory \$1,500; wages per annum, \$1,600.

6. Owing to low prices of salt, and frequent failure of the wells, few, if any persons, in this section of country, who have been engaged a series of years, have realized any profit beyond a living.

7. Strong or weak water, or low prices.

8. Various, and not easily ascertained.

9. About 9,000 bushels per annum.

10. Materials used, salt water and coal, both of which on the lands attached to the establishment.

11. Foreign salt in Pittsburgh would cost, at present, about \$1 per bushel.

12. Six men, 87½ cents per day, exclusive of mechanics.

13. Twelve hours per diem, throughout the year.

14. Rate of wages on this part of Pennsylvania canal 87½, men employed in agriculture about 60 cents per day, including board.

15. Two horses, and no other animals.

16. About one-fourth sold at home; the balance has to be sent to the towns on the Ohio, and to Nashville, Tenn., Florence, Ala., and St. Louis, Mo., &c.

17. Owing to prejudice in the eastern markets, salters in the west are obliged to use a portion of Turks' Island salt, which has the effect of lessening the demand for domestic salt, though the foreign has rated about 25 to 50 cents higher.

19. Not any except when it is used in salting provisions.

## DOCUMENT 14.—No. 176—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                    | 22. In 1822, 75 cents per bushel, now 35 at the works, but will not net that when sent to market, owing to a late depression from domestic competition.                                                                                                            |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                              | 23. A duty of 25 cents per bushel would enable the manufacturer here to send his salt to Philadelphia as soon as the Pennsylvania canal is completed.                                                                                                              |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                            | 26. The raw materials cost nothing, but wages paid for labor, and value or cost of the land.                                                                                                                                                                       |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                    | 28. I should estimate the amount of salt manufactured in this State at 500,000 bushels.                                                                                                                                                                            |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Should the present price of salt continue, (say to net but 20 cents,) I shall have to abandon the business, and many more of the manufacturers will have to do so likewise: an increase of duty would enable the manufacturer to extend the market.            |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                             | 32. The salt manufactures are remote from the sea-board, yet the foreign salt meets the domestic in Lewistown, Mifflin county, Pa. and as far up the Ohio as Cincinnati; a reduction of the duty would circumscribe our market, and an increase of duty extend it. |

WILLIAM BARKER.

## DOCUMENT 14.—No. 177.

*Salt Works, Indiana County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                                | 1. Indiana county, State of Pennsylvania.                                                                                 |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                     | 2. Salt works; two wells pumped by steam, and two wells by horse power, making four wells in operation.                   |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                                  | 3. Established in 1828; private concern.                                                                                  |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                          | 4. Twelve thousand dollars.                                                                                               |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of the profit upon that portion which is not borrowed? | 6. Profit in the years 1829 and 1830, 15 per cent.; in 1831 it will not net 6 per cent. on account of the duty taken off. |

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                   | 7. On account of the decrease; we believe on account of the duty being taken off.                                                                                                                              |
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                                                                                                                                         | 10. We use no foreign article unless copper for tube, which costs about 50 or \$60 to each well, first cost of copper: a well will cost to establish in this part of the country, from 2,000 to 3,000 dollars. |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                         | 11. I have not seen any foreign salt in this part of the country for 20 years.                                                                                                                                 |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                       | 12. It will take from 8 to 9 men to carry on one salt well, including coopering, &c.                                                                                                                           |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                        | 13. We have double set of hands; go on 24 hours, and all times of the year.                                                                                                                                    |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                        | 14. For coal digging, \$1 to \$1 50 per day; for boiling, 18 to 19 dollars per month.                                                                                                                          |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                         | 15. Generally two horses.                                                                                                                                                                                      |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                               | 16. We sell about one-third of the salt made at the works; the balance is sent from 5 to 700 miles down the Ohio river, and from 100 to 150 over the mountains.—                                               |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                              | 17. When we come in competition with foreign salt of last or this year; foreign salt will not let us send our domestic salt much further than Pittsburgh, and will not be more than 50 miles.                  |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                              | 20. Some for cash, the most for trade of the country; credit, three to six months.                                                                                                                             |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?              | 21. The principal cost is iron and metal; iron has fell in price about \$10 per ton; metal remains much the same.                                                                                              |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                    | 22. We have sold salt for \$2 per barrel, for 280 lb., and 35 cents per bushel; for the last few years; before that it was up to \$3 per barrel.                                                               |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                              | 23. I am not acquainted with the first cost of salt at the islands; the duty ought to be so salt could not be sold in the city below forty cents.                                                              |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                        | 24. None that I know of.                                                                                                                                                                                       |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                    | 28. In this State from 600,000 to 700,000 bushels.                                                                                                                                                             |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. In most cases it would cause the works to be abandoned.                                                                                                                                                    |

## DOCUMENT 14.—No. 177.—Continued.

| QUESTIONS.                                                                                                                                                                                  | ANSWERS.                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                              | 30. In many cases there would be but little capital left to employ in any way.                                                           |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent?                                | 31. In merchandising, or raising stock.                                                                                                  |
| 32. Are not the manufactures of salt and iron remote from the points of importation, and of foreign competition within a certain circle around them, and what is the extent of that circle? | 32. They are remote from the sea board; but meet with foreign competition to the east at Huntingdon, and to the southwest at Cincinnati. |

For J. & H. DEAN,  
HENRY DEAN.

## DOCUMENT 14.—No. 178.

*Salt Manufactory, Indiana County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                       | ANSWERS.                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                        | 1. Indiana county, Pennsylvania.                                                                                                                                                                                |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                                                                                                                                                                             | 2. Salt manufactured by boiling with stone coal fuel, and water pumped by steam power.                                                                                                                          |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                          | 3. One established in 1821, and one in 1823.                                                                                                                                                                    |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                  | 4. \$13,000 for two salt establishments.                                                                                                                                                                        |
| 5. Average amount in materials, and in labor for the purchase of materials and payment of wages?                                                                                                                                                                                                 | 5. Iron and copper are almost the materials and the work used in erecting our manufactory, \$1,600, and wages per annum 1,700 dollars for each manufactory.                                                     |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon and the rate of profit upon that portion which is not borrowed? | 6. Owing to the low prices of salt and frequent failure of the salt water. Few if any person in this section of country, who have been engaged for a series of years, have realized any profit beyond a living. |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                          | 7. Strong or weak water, or low prices.                                                                                                                                                                         |
| 8. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                            | 8. It is not known by us what quantity of salt was made here for a few of the first years, but at present one establishment makes 18,000 bushels, and one 13,000 bushels per year.                              |
| 9. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                   | 9. Materials used, salt water and stone coal, both found on the lands attached to the establishments.                                                                                                           |

## DOCUMENT 14.—No. 178—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                          | ANSWERS.                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12. Number of men, women, and children, employed, and average wages of each class?                                                                                                                                                                                                  | 12. 13 men, at $87\frac{1}{2}$ cents per day; 3 superintendents, at \$350 per year, for two establishments.                                                                                                                                                                 |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                    | 13. 12 hours per day, through the year.                                                                                                                                                                                                                                     |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                    | 14. Rate of wages on the Pennsylvania canal, $87\frac{1}{2}$ cts.; men employed in agriculture from 50 to 60 cents, including board.                                                                                                                                        |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                     | 15. Five horses, including both establishments.                                                                                                                                                                                                                             |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                           | 16. The surplus quantity of salt which cannot be sold at the works, is sometimes sent as far south as Florence, Alabama, and the intermediate towns on the Ohio, and as far east as Lewistown, Mifflin county, Pennsylvania.                                                |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                          | 17. Foreign salt is now brought to Lewistown by way of the Pennsylvania canal, and to Florence, Alabama, and towns on the Ohio river, as far as Cincinnati, to a large extent.                                                                                              |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                | 22. In 1822 and 23 salt was sold at \$1, now 35 cents at the works.                                                                                                                                                                                                         |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                          | 23. A duty of 25 cents per bushel would enable the manufacturer to send his salt to Philadelphia when the Pennsylvania canal is completed.                                                                                                                                  |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                        | 26. Raw materials cost nothing but wages paid for labor, and value or cost of the land.                                                                                                                                                                                     |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                    | 27. About \$1,600 per annum is expended for provisions, and not less than \$2,500 per year is expended for clothing men, women, and children. Domestic woollen and cotton goods mostly used.                                                                                |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to $12\frac{1}{2}$ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Should the present price of salt continue, (say to net but 30 cents,) we should have to abandon the business: an increase of duty would enable the manufacturer to extend the market.                                                                                   |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                      | 30. We would have no capital left to join any business.                                                                                                                                                                                                                     |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                                         | 32. The salt manufactures are remote from the seaboard, yet the foreign salt meets the domestic in Lewistown, Mifflin county, Pennsylvania, and as far up the Ohio as Cincinnati. A reduction of the duty would circumscribe our market, and an increase of duty extend it. |

McKEOWN &amp; RODGERS.



## DOCUMENT 14.—No. 179.

*Thomas Johnston's Salt Works, Indiana County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. State and county in which the manufactory is situated?</p> <p>2. Kind or description of the manufactory; and whether water, steam, or other power?</p> <p>3. When established; and whether a joint stock concern?</p> <p>4. Capital invested in ground and buildings, and water power, and in machinery?</p> <p>5. Average amount in materials, and in cash for the purchase of materials and payment of wages?</p> <p>6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed?</p> <p>7. Cause of the increase, (or decrease, as the case may be,) of profit?</p> <p>8. Rates of profit on capital otherwise employed in the same State and county?</p> <p>9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?</p> <p>11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?</p> <p>12. Number of men, women and children employed, and average wages of each class?</p> <p>13. How many hours a day employed, and what portion of the year?</p> <p>14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?</p> <p>15. Number of horses or other animals employed?</p> <p>16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?</p> <p>17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?</p> <p>19. Whether any of the manufactures are exported to foreign countries? and if so, where?</p> | <p>1. Pennsylvania, Indiana county.</p> <p>2. Salt manufactory; steam power used to pump the water.</p> <p>3. Re-established in 1830 and '21, and individually.</p> <p>4. About \$7,000 in land, improvements, and machinery.</p> <p>5. Materials found on the land; salt water and coal, wages of firemen, and miners, and foreman, \$1,650 per annum; for cooper and stuff for barrels, and blacksmith, \$1,000.</p> <p>6. Rate of profit very irregular: the nature of the business is such as subjects it to sudden and heavy drawbacks.</p> <p>7. Home competition and a circumscribed market, in consequence of foreign salt coming us at Huntingdon, on the east side, and at Cincinnati, on the southwest, is the cause of the decrease.</p> <p>8. Profit varies from 8 to 25 per cent.</p> <p>9. My works went into operation on the 1st of January last; have made 5,000 bushels good salt, worth probably 30 cents per bushel, if it could be sold at the well.</p> <p>11. With the present duty; costs from 20 to 40 cents per measured bushel.</p> <p>12. 5 laborers and a foreman, and their families, exclusive of coopers, about 90 cents per day, the finding them in board, &amp;c., &amp;c.</p> <p>13. 19 hours, and through all the year.</p> <p>14. On the public works the wages are similar; on farms from 60 to 70 cents per day.</p> <p>15. 2 horses.</p> <p>16. About one-fourth vended at home at present; sent 150 miles north, east, and south, and west as far as Florence, in Alabama. When the Pennsylvania canal and railroad is completed the transportation will be so much reduced that it will enable the manufacturer to send east to Harrisburg, and supply the surrounding counties.</p> <p>17. At present the foreign article comes at Cincinnati to the west, and at Lexington and Huntingdon to the east, and at Bedford and South Cumberland, Maryland.</p> <p>19. No.</p> |

## QUESTIONS.

20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?

21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased, and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?

22. The prices at which the manufactures have been sold by the manufacturer since the establishment?

23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?

24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?

27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?

28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own state?

29. If the duty upon the foreign manufacture of the kind of goods which you make are reduced to 12½ per cent., with a corresponding reduction on all the imports, would cause you to abandon your business, or would you continue to manufacture at reduced prices?

30. If it would cause you to abandon your business, in what way would you employ your capital?

31. Is there any pursuit in which you could engage, from which you could derive greater fits even after a reduction of the import duties to 12½ per cent.?

32. Are not the manufactures of salt and remote from the points of importation, of foreign competition within a certain circle around them, and what is the extent of the circle?

## ANSWERS.

20. In part for cash; on credit and bartered for produce and such other articles as are needed at the works.

21. The cost of manufacturing the article has decreased fifty per cent. since 1822, which is principally attributable to the improvement made in the wells, and the mode of manufacturing and reduction in iron, &c.

22. Thirty cents for 56 lbs.; in 1819, '20, '21, and '22, \$1; in '24 and '25, fifty to sixty cents.

23. A duty that would make foreign salt worth fifty cents per bushel in the seaports, would enable the home factories to supply all the country bordering on the Ohio, Mississippi, and their navigable tributaries, and to the vicinity of Philadelphia and Baltimore when the various canals and railroads are completed; and, judging from the rapid extension of the manufacture of salt, and the facility with which the raw material has been found, I would say the country was capable of furnishing it to an unlimited extent.

24. I know of none.

27. All that is used is domestic, except copper; produce from \$500 to \$800 per year; in barrels and other materials \$1,200 to \$1,500.

28. I have not all the information necessary to enable me to state the quantity made in the United States, but estimate the quantity made in western Pennsylvania at from 600,000 to 700,000 bushels per annum.

29. I would abandon the business, unless so many others did so as to curtail the quantity manufactured within the limited demand.

30. In the mercantile business.

31. If the present quantity should continue to be manufactured, I think almost any business would offer greater inducements.

32. If the duty was taken off the circle would be very limited to the southwest and to the east; and when the Baltimore and Ohio railroad is finished to the south, I would not embrace a circle that would exceed, in distance, two hundred miles.

GENTLEMEN: Above you have answers to most of the queries, which have been hastily run out.

Yours, &c.,

THOMAS JOHNSTON.

## DOCUMENT 14.—No. 180.

*Salmont Salt Works, Westmoreland County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Salmont, Westmoreland county, Pa.                                                                                                                                                                                                       |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Salt works; steam power for pumping salt works, and stone coal for fuel.                                                                                                                                                                |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Commenced in 1816; went out of operation in 1822; in consequence of the great quantity manufactured and started in 1821 but did not clear expenses by \$2300, on 15th April, from which time we made an average of 100 bushels per day. |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Ten thousand dollars.                                                                                                                                                                                                                   |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. Annual expenditure of iron and hardware for wear and tear, \$970; payment of wages, \$3427.                                                                                                                                             |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. Loss sustained from 1822 to 15th April, 1831, \$2500; since which time we have realized 20 per cent.                                                                                                                                    |
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                                | 7. Cause of decrease is the surplus quantity on hand, for want of more extensive markets for our salt.                                                                                                                                     |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. From six to twenty per cent.                                                                                                                                                                                                            |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. Formerly about 11,500 bushels; at present we are making at the rate of 12,000 bushels per annum.                                                                                                                                        |
| 10. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 10. From 45 to 50 cents per bushel, from England and the West Indies, at Philadelphia, for some time past.                                                                                                                                 |
| 11. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 11. 16 men; wages from 18 to 26 dollars per month.                                                                                                                                                                                         |
| 12. How many hours a day employed? and what portion of the year?                                                                                                                                                                                                                                     | 12. 12 hours per day, all the year.                                                                                                                                                                                                        |
| 13. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 13. Wages of similar classes in our country varies from 14 to 18 dollars per month.                                                                                                                                                        |
| 14. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 14. Three horses.                                                                                                                                                                                                                          |
| 15. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 15. A small quantity is sold at the works; some is sent west to Cincinnati, south to the Virginia State line, east to Huntingdon.                                                                                                          |
| 16. Whether foreign articles of the like kinds enter into competition with them, at such place of sale; and to what extent?                                                                                                                                                                          | 16. Some foreign salt comes up to Cincinnati, up the Ohio; and some as near as Huntingdon, within 80 miles of us.                                                                                                                          |
| 17. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 17. In the western part of this State, the western part of Virginia, Ohio, and Indiana.                                                                                                                                                    |
| 18. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                             | 18. None.                                                                                                                                                                                                                                  |
| 19. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                           | 19. But a small quantity for cash; the remainder on credit, and bartered for produce.                                                                                                                                                      |

DOCUMENT 14.—No. 180.—Continued.

## QUESTIONS.

## ANSWERS.

21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?

22. The prices at which the manufactures have been sold by the manufacturer since the establishment?

23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?

24. What has been the rate of your profits, annually, for the last three years? and if be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually?

25. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?

27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?

28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?

29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 13½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or could you continue to manufacture at reduced prices?

30. If it would cause you to abandon your business, in what way would you employ your capital?

31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent?

32. Are not the manufactures of salt and soda remote from the points of importation, free of foreign competition within a certain circle around them, and what is the extent of that circle?

34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent., and how gradual the reduction should be?

21. Salt in 1818 cost 130 cents per bushel to make; the cost has decreased gradually until the present, which is from 25 to 30 cts. per bushel.

22. In 1818 sold for 150 cents per bushel, and has gradually decreased until 1828, and is established at 35 cents per bushel at works or manufactory.

23. As soon as our Pennsylvania canal and railroads are complete, a duty of 30 cents per bushel on foreign salt would enable us to send our salt to the Philadelphia market, or at least as far east as the Susquehanna, and a greater distance south and west.

25. Profits about five per cent.; a joint stock, consisting of two partners.

26. Cannot say.

27. At present we consume at the rate of \$2500 per year for agricultural productions, and about the rate of \$2500 for clothing.

28. There is manufactured in Western Pennsylvania between \$00,000 and \$50,000 bushels of salt annually.

29. It is most likely that we would have to abandon our business in such case, as we could only supply a very small circle.

30. If our business was abandoned, our property would be of no value, and we would have no capital left to invest in any thing else.

31. This we do not know.

32. We are out of competition in a very small circle, from 40 to 80 miles.

34. There are many manufactories now that do not yield six per cent.

## DOCUMENT 14.—No. 180.—Continued.

| QUESTIONS.                                                                                  | ANSWERS.                                                                    |
|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 37. Proportion which the production by the American manufacturers bears to the consumption? | 37. Domestic salt supplies about half the consumption of the United States. |

SAMUEL DOBBIN,  
JOHN ABTS,  
*Proprietors.*

## DOCUMENT 14.—No. 181.

*N. M. D. Sterrett's Conemaugh Salt Works, Westmoreland County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Sterrett's salt works on the Conemaugh river, Westmoreland county, Pennsylvania.                                                                                                                                                                                                                                                                                                                   |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Salt is manufactured with <del>stone</del> coal fuel; steam power.                                                                                                                                                                                                                                                                                                                                 |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. These works were established in 1818 individual stock.                                                                                                                                                                                                                                                                                                                                             |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Capital invested six thousand dollars in land, buildings, and machinery.                                                                                                                                                                                                                                                                                                                           |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. Stone coal and salt water being the only materials used, are found on the premises attached to the works.                                                                                                                                                                                                                                                                                          |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. Some years it has turned out to be a losing business, by losses in transportation and otherwise; and in other years but moderate profits have been made: the rate per cent. in this concern for the last ten years has not been an average of more than eight per cent.                                                                                                                            |
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                                | 7. The increased production of domestic salt has been caused by many enterprising citizens who have engaged in the manufacture thereof within the last 10 or 12 years.                                                                                                                                                                                                                                |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. This varies from 15 to 33½ per cent.                                                                                                                                                                                                                                                                                                                                                               |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. It is not exactly known what quantity of salt was made here during the first few years, but at present, about or for the last three years, the average has been 12,000 bushels. There are on this river, now in operation, in the space of three miles up and down the river, eleven salt manufactories averaging each from 12 to 14,000 bushels per annum; in all 154,000 bushels salt per annum. |
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. No raw materials are used except salt water and stone coal; but large quantities of sheet and bar iron, castings, &c. Iron is used for the construction of salt pans, engines, &c. castings for grate bars, braces, parts of engines. One engine is necessary for every and each manufactory, which costs from four to                                                                            |

DOCUMENT 14.—No. 181—Continued.

## QUESTIONS.

12. Number of men, women, and children employed, and average wages of each class?

13. How many hours a day employed, and what portion of the year?

14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?

15. Number of horses or other animals employed?

16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?

17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?

22. The prices at which the manufactures have been sold by the manufacturer since the establishment?

23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?

27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?

28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?

29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?

30. If it would cause you to abandon your business, in what way would you employ your capital?

## ANSWERS.

six hundred dollars; sheet iron costs us \$165 per ton, bar iron \$110, castings \$60 per ton: no foreign articles are used to any amount except copper tubes and screws, of which it requires about \$200 worth to each manufactory.

12. I employ twelve men the whole year at an average of \$20 per month, one superintendent at \$500 per year.

13. Twelve hours per day, summer and winter.

14. From 14 to 15 dollars per month.

15. Two horses are employed the year round for each manufactory.

16. The surplus salt which cannot be sold at home is sent by different manufacturers to Cincinnati, Louisville, Nashville and Florence, Alabama, and has been sent as far east as Lewistown, Mifflin county, Pennsylvania, a distance of about 100 miles from these works.

17. Foreign salt is brought to Lewistown and Huntingdon, by the Pennsylvania canal, and up the Mississippi and Ohio rivers as far as Cincinnati and Maysville.

22. In 1818 salt was sold here at \$1.50 per bushel: at present it is only worth 35 cents per bushel at the works; and when sent to a distant market it sometimes does not meet more than from 20 to 30 cents per bushel, after the charges for transportation, &c. are paid.

23. The transportation of salt is expensive on account of its bulk and weight: a less duty than 25 cents per bushel would enable the manufacturer to enter into competition with imported salt: a duty of 12½ cents would enable the manufacturer to send it farther east or west.

27. About \$1,200 per annum is expended for provisions, and about the same amount is expended in clothing men, women, and children for each manufactory; domestic woollen and cotton goods are mostly used.

28. The quantity of salt manufactured in Western Pennsylvania is estimated at 600,000 bushels per annum.

29. This would compel us to abandon the manufacture of salt altogether in this section of the country.

30. In the manufacture of iron or paper, or in agriculture.

DOCUMENT 14.—No. 181—Continued.

| QUESTIONS.                                                                                                                                                                                  | ANSWERS.                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle? | 32. Foreign salt is now brought to Huntingdon, by way of the Pennsylvania canal, from Philadelphia: Huntingdon is but eighty miles from these works. |

## CONEMAUGH SALT WORKS.

N. M. D. STERRETT.

N. B. Mr. Sterrett's return will answer generally for the works along the Conemaugh.  
W. JOHNSTON.

## No. 2.

*Shelton's Salt Works, Westmoreland County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Westmoreland county, State of Pennsylvania.                                                                                                                                                                                   |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. The salt is manufactured from salt water drawn from a well by an engine, and boiled down in sheet-iron pans, with steam coal fuel.                                                                                            |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. The works were established in 1816, and continued in operation till 1834, when the price of salt became so low, (\$1 per bushel,) they were given up till 1830. Individual stock.                                             |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Six thousand dollars in ground, buildings, and machinery.                                                                                                                                                                     |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. At present the rate of profit is about eight per cent.: from 1824 until 1830 the business would not yield a sufficient profit to warrant the continuance of the manufacture.                                                  |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. Since 1829 there has been a greater demand for salt, both at home and abroad, owing probably to a decrease in market of imported salt.                                                                                        |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. The average quantity of salt manufactured per year is about 12,000 bushels; its present value is 45 cents per bushel.                                                                                                         |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. Bar and sheet iron, castings and copper, are the principal materials used in the execution of the works. The quantity of copper used, in proportion to the other articles, will not be more than 1-12 part of the whole.     |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                                                                     | 12. From 10 to 12 men are employed at \$20 per month.                                                                                                                                                                            |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                     | 13. Twelve hours each day, and work the whole year.                                                                                                                                                                              |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. Two horses are necessary.                                                                                                                                                                                                    |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. A part of the salt is sold at the works; the remainder is taken to Pittsburgh, to Cincinnati, Louisville, and some further down the Ohio river; a good deal that is sold at the works is taken to Virginia and other places. |

DOCUMENT 14.—No. 181—[No. 3]—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                              | 17. We come in competition with foreign salt at Cincinnati, Ohio; Huntingdon, Penn., and at Cumberland, on the Potomac river, and occasionally at Mount Pleasant, in this county. |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                               | 19. No salt at any time has been exported to foreign countries from this manufactory.                                                                                             |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                              | 20. An uncertain portion of the salt is sold for cash; the remainder is bartered for produce, &c.                                                                                 |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                        | 27. From \$1,000 to \$12,000 worth of agricultural and domestic productions are annually consumed.                                                                                |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. If the duty on salt were reduced to 12½ cents, we would not be able to compete with foreign salt at a living profit.                                                          |

THOMAS SKELTON,  
For WALTER M. SKELTON.

CONEMAUGH SALT WORKS.

No. 3.

*Jacob Drum's Franklin Salt Works, Westmoreland County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                         | ANSWERS.                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                          | 1. Franklin salt works, Westmoreland county, Pennsylvania.                                                                                                                                                                                            |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                               | 2. Salt is manufactured with steam power and stone coal fuel.                                                                                                                                                                                         |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                            | 3. These works were erected in 1818, and kept in operation till 1822, then they were abandoned and set idle till 1829; this was occasioned by low prices and competition in business; but they have been put in operation again in 1829, in November. |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                    | 4. Eight thousand dollars; individual stock.                                                                                                                                                                                                          |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                    | 5. Salt water and stone coal being the only materials used, are found on the premises attached to the salt works.                                                                                                                                     |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit on that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. This is a difficult question to answer—some years it turned out to be a losing business, by losses in transportation by water and otherwise; and in other years but moderate profits were made.                                                    |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                            | 7. The increased production of domestic salt has been caused by many enterprising                                                                                                                                                                     |



| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                          | citizens who have engaged in the manufacture thereof within the last 10 or 12 years.                                                                                                                                                                                           |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                   | 8. This varies from 12½ to 25 per cent.                                                                                                                                                                                                                                        |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                         | 9. It is not exactly known what quantity of salt was made here during the first four years, but at present about 14,000 bushels are made per annum.                                                                                                                            |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                       | 10. No raw materials are used except water and stone coal; but large quantities of sheet and bar iron are used for the construction of salt pans. No foreign article is used to any amount, except copper tubes, screws, of which it requires about \$100 worth to each works. |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                        | 12. Ten men are employed the whole year at 18 to \$20 per month, and one superintendent at \$500 per year.                                                                                                                                                                     |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                               | 13. Twelve hours per day, summer and winter.                                                                                                                                                                                                                                   |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                              | 16. The surplus quantity of salt which is not sold at the works, is sent by different manufacturers to Cincinnati, Louisville, Nashville, Florence, Alabama, and as far as Lewistown, Mifflin county, Pennsylvania.                                                            |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                    | 17. Foreign salt is now brought to Huntingdon by way of the Pennsylvania canal up the Mississippi and Ohio rivers as far as Cincinnati and Maysville.                                                                                                                          |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                              | 22. In 1818 salt was sold here at \$1.50 per bushel; at present it is only worth 30 cts. at the works; and when sent to a distant market, it is sometimes not worth more than 30 cts. per bushel, after the charges for transportation, &c. are paid.                          |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                        | 23. The transportation of salt is expensive on account of its weight and bulk; a duty of 5 cents per bushel would enable the manufacturer to send it further east or west.                                                                                                     |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                    | 27. About \$1,200 per annum is expended for provisions, and about the same amount is expended in clothing men, women, and children; domestic woollen and cotton goods are mostly used.                                                                                         |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 28. The quantity of salt manufactured in Western Pennsylvania is estimated at from five to six hundred thousand bushels per annum.                                                                                                                                             |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them; and what is the extent of that circle?                                                                             | 29. This would, no doubt, compel the men to abandon the manufacture of salt.                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                         | 32. Foreign salt is now brought to Huntingdon, by way of the Pennsylvania canal from Philadelphia; Huntingdon is about 20 miles from these works.                                                                                                                              |

DOCUMENT 14.—No. 181.—[No. 3].—Continued.

| QUESTIONS.                                                                                  | ANSWERS.                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 37. Proportion which the production by the American manufacturers bears to the consumption? | 37. It is estimated that the yearly consumption of salt in the United States is ten millions of bushels. Out of this quantity about four millions and a half of bushels are manufactured on the seaboard and in the interior of the country. |

For JACOB DRUM,  
JOHN ROYER.

## DOCUMENT 14.—No. 182.

*Hope Salt Works, Westmoreland County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. We manufacture salt on the Kiskiminetos river, Westmoreland county.                                      |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. By horse power.                                                                                          |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. In 1828; at present a joint concern.                                                                     |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. From five to six thousand dollars.                                                                       |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. Answered in the above.                                                                                   |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. Have not averaged more than 12 per cent.                                                                 |
| 7. Causes of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                               | 7. The competition and reduction of duty on foreign salt have reduced the profit materially.                |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. The works make, annually, 10,000 bushels of salt, equal to any imported.                                 |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. Owing to the reduction of the duty on foreign salt, the domestic will soon come to 25 cents per bushel. |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                                                                     | 12. There are six men at \$20 per month, and feed and clothe twenty-six men, women and children.            |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                     | 13. The works go night and day, (Sundays excepted); the boilers work, each, 12 hours.                       |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 14. Farmers don't pay, by five dollars per month, as much as we pay at the works.                           |

## DOCUMENT 14.—No. 182—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                               | 16. All the salt exported sent to Pittsburgh market.                                                                         |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                              | 20. The salt sold at the works is generally for trade, the produce of the neighborhood.                                      |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                              | 23. A duty on foreign salt of 25 cents per bushel would enable the manufacturers of domestic to come in competition with it. |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                            | 26. Believe all the materials the produce of the United States.                                                              |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                        | 27. All domestic, except some coffee and tea.                                                                                |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Should the duty be taken off foreign salt, all the works in Western Pennsylvania must stop.                              |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. The high water last winter took off the amount.                                                                          |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                           | 31. Don't know of any.                                                                                                       |

HORN SALT WORKS, April 28, 1832.

SAMUEL TALMADGE.  
ROBERT CRISWELL.

N. B. Another works as above in value.

Hill's, with a steam engine; and another going into operation, a joint concern. Lynch & Wilson's, two horses, and the same number of hands as stated above.

## DOCUMENT 14.—No. 183.

*Salt Manufactory, Westmoreland County, West Pennsylvania.*

| QUESTIONS.                                                                           | ANSWERS.                                              |
|--------------------------------------------------------------------------------------|-------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. In Westmoreland county, and State of Pennsylvania. |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. Salt works; horse power.                           |
| 3. When established; and whether a joint stock concern?                              | 3. In 1822, and is a joint stock concern.             |

## DOCUMENT 14.—No. 183—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                        | ANSWERS.                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                   | 4. \$2,500.                                                                   |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                   | 5. \$500.                                                                     |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. \$500; no portion of the capital borrowed.                                 |
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                             | 7. An increase arising from a more abundant supply of materials.              |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                    | 8. About six per cent.                                                        |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                             | 9. 3,500 bushels, at 40 cts. per bushel.                                      |
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                                                                                                                                                                   | 10. 1,500 bushels of coal, at 2 cents per bushel.                             |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                   | 11. Unable to say.                                                            |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                 | 12. 3 men, at \$100 per annum.                                                |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                  | 13. Average 12 hours per day all the year.                                    |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                  | 14. About \$100 per annum.                                                    |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                   | 15. 2 horses.                                                                 |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                         | 16. Generally at the works; if not in the distance of 20 miles.               |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                        | 17. No.                                                                       |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                          | 18. In Westmoreland and Alleghany counties.                                   |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                          | 19. No.                                                                       |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                        | 20. Generally bartered for produce.                                           |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                        | 21. An increase. See No. 7.                                                   |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                              | 22. Average 50 cents per bushel retailing, and 40 cents per bushel wholesale. |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. Unable to answer.                                                                 |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. Unable to answer.                                                                 |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. \$500; a dividend of 10 per cent.                                                 |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. \$600 worth of agricultural productions.                                          |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29. It might not cause us to abandon our business, but it would injure us materially. |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                                                                                                | 32. We are out of foreign competition: extent of that circle is perhaps 100 miles.    |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                                                                                               | 33. \$3,000; no borrowed capital.                                                     |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent.; and how gradual the reduction should be?                                                                                                                                                                | 34. Unable to answer.                                                                 |
| 35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum?                                                                                                                           | 35. Unable to answer.                                                                 |
| 36. What would be the operation of this change upon the frauds at present supposed to practised?                                                                                                                                                                                                                                           | 36. Unable to answer.                                                                 |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                                                                                                                                                | 37. Unable to answer.                                                                 |
| 38. Extent of individual or household manufacture in the United States, and how much it has increased since the tariff of 1824?                                                                                                                                                                                                            | 38. Unable to answer.                                                                 |
| 39. Average profit of money or capital in the United States?                                                                                                                                                                                                                                                                               | 39. Unable to answer.                                                                 |
| 40. Average rate of wages?                                                                                                                                                                                                                                                                                                                 | 40. Unable to answer.                                                                 |

N. B.—There is one other salt works on the Youghiogony river, in this county, but they are not in operation at present, and it is very doubtful whether they will ever be put in operation. There are also four salt works in operation on the Sewickly creek, whose report I have not received. At present 4 wells are boring upon that creek. EDW. JOHNSTON.

## DOCUMENT 14.—No. 184.

*Alleghany Salt Works, Westmoreland County, West Pennsylvania.*

## QUESTIONS.

1. State and county in which the manufactory is situated?
2. Kind or description of the manufactory; and whether water, steam, or other power?
3. When established; and whether a joint stock concern?
4. Capital invested in ground and buildings, and water power, and in machinery?
5. Average amount in materials, and in cash for the purchase of materials and payment of wages?
6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed?
7. Cause of the increase (or decrease, as the case may be) of profit?
9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?
10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?
12. Number of men, women, and children employed, and average wages of each class?
13. How many hours a day employed; and what portion of the year?
16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?
17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?
22. The prices at which the manufactures have been sold by the manufacturer since the establishment?
23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?
27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?
29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?

## ANSWERS.

1. In Westmoreland county, and State of Pennsylvania.
2. Steam power.
3. Donnelly's established in 1828, and is an individual concern. Weaver's established in 1830, and is a joint stock concern.
4. Donnelly's capital invested is \$4,000. Weaver's, \$4,000.
5. Donnelly's amount in materials, &c. \$2,000 per annum. Weaver's, \$2,000.
6. Our profits, since commencement, will amount to \$800 per annum.
7. A decrease at present arising from an overstocked market.
9. 1,680 barrels per annum, at \$2 per barrel. No. 1 is worth \$2; No. 2 is worth \$1 87½; No. 3 is worth \$1 75.
10. 6,200 bushels of coal, at 1½ cents per bushel.
12. Six men, at \$21 per month.
13. Average about twelve hours per day throughout the year.
16. Generally at Pittsburgh and Cincinnati, and also to Louisville. Pittsburgh is about 28 miles from these works, and Cincinnati about 500.
17. Foreign salt is brought to Louisville.
22. In 1828 and in 1830 salt sold at these works at the rate of 75 cents per bushel, and, at the present time, at the low rate of 37½ cents.
23. A duty of about 25 cents per bushel, &c.
27. About \$1,200 worth per annum of agricultural and domestic productions.
29. This would compel us to abandon the manufacture of salt altogether in this section of the country.

## DOCUMENT 14.—No. 184—Continued.

| QUESTIONS.                                                                                                                                                                                                       | ANSWERS.                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                   | 30. In the manufacture of paper, iron or in agriculture. |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                      | 32. Answered by No. 17.                                  |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                     | 33. Unable to reply to this question.                    |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent., and how gradual the reduction should be?                                        | 34. Ditto. Ditto.                                        |
| 35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum? | 35. Ditto. Ditto.                                        |
| 36. What would be the operation of this change upon the frau's at present supposed to be practised?                                                                                                              | 36. Ditto. Ditto.                                        |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                      | 37. Ditto. Ditto.                                        |
| 38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?                                                                                 | 38. Ditto. Ditto.                                        |
| 39. Average profit of money or capital in the United States?                                                                                                                                                     | 39. Ditto. Ditto.                                        |
| 40. Average rate of wages?                                                                                                                                                                                       | 40. Ditto. Ditto.                                        |

N. B.—Gaulinger, Carns, & Donnel's salt works on the Alleghany, below Freeport, will average about 3,600 lbs. of salt manufactured per annum, at \$2 per barrel, amounting in materials, &c., per annum, to about \$1,800. They were established in 1822. The other necessary queries, as they respect these works, are answered in Messrs. Donnelly's and Weaver's statements.

P. S.—Walters has commenced on the Alleghany, but it is so recently that he can give me no information whatever.

EDWARD JOHNSTON.

## DOCUMENT 11.—No. 185.

*Paper Manufactory, Fallston, Beaver County, West Pennsylvania.*

| QUESTIONS.                                                                           | ANSWERS.                                           |
|--------------------------------------------------------------------------------------|----------------------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Pennsylvania, Beaver county.                    |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. Paper manufactory; propelled by water power.    |
| 3. When established; and whether a joint stock concern?                              | 3. Established in 1826, and a joint stock concern. |

## DOCUMENT 14.—No. 185—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                       | ANSWERS.                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                  | 4. Nineteen thousand dollars.                         |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                  | 5. Consume 166,000 lbs. rags annually.                |
| 6. Annual rate of profit on capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. About 6½ per cent.                                 |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                          | 7. Competition.                                       |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                            | 9. Paper, about \$15,000 per annum.                   |
| 12. Number of men, women, and children, employed; and average wages of each class?                                                                                                                                                                                                               | 12. 10 men, 23 women, and 5 boys.                     |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                  | 15. Three horses.                                     |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                        | 16. At Pittsburgh and the western country in general. |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                         | 19. No.                                               |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                       | 23. The present tariff.                               |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                          | 29. Yes.                                              |
| 40. Average rate of wages?                                                                                                                                                                                                                                                                       | 40. Men \$6 per week; women \$1 75; and boys \$1 50.  |

JOHNSTON &amp; STOCKTON.

## DOCUMENT 14.—No. 186.

*Sharpless & Co's. Paper Mill, Columbia County, West Pennsylvania.*

| QUESTIONS.                                                | ANSWERS.                          |
|-----------------------------------------------------------|-----------------------------------|
| 1. State and county in which the manufactory is situated? | 1. Pennsylvania, Columbia county. |
| 2. Kind or description of the manufactory?                | 2. Paper mill; water power.       |
| 3. Capital invested in ground and buildings?              | 3. Twenty-one thousand dollars.   |



## DOCUMENT 14.—No. 186—Continued.

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Six thousand dollars.                                                                                                   |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Not to exceed one per cent.                                                                                             |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                               | 6. The markets being glutted, from the quantity of paper imported, and the income of factories in the United States.       |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. About 900 reams of foolscap, 1000 lbs of printing paper, good quality; foolscap \$5 per ream, printing \$3 50 per ream. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. 20 tons of rags, at 6 cents per lb.                                                                                     |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. About seven men and eight women; men at \$20 per month; women at \$1 20 per week.                                      |
| 11. How many hours a day employed; and what portion of the year?                                                                      | 11. About eight hours per day; about ten months in the year.                                                               |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. Part sold in the neighborhood, and a part sent to Philadelphia, distance 120 miles.                                    |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?            | 13. In Philadelphia the competition has been so great as to take off our profits entirely.                                 |
| 14. Where are the manufactures consumed?                                                                                              | 14. In the United States.                                                                                                  |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 15. None exported.                                                                                                         |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 16. Some for cash; some bartered for materials; and some at 6 and 9 months' credit.                                        |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                  | 17. Foolscap has fallen \$1 25 per ream; printing paper has fallen \$1 per ream, and a reduction in materials.             |
| 19. What has been the rate of your profits, annually, for the last three years?                                                       | 19. About one per cent.                                                                                                    |
| 20. Amount of capital?                                                                                                                | 20. Refer to answers to questions 3 and 4.                                                                                 |
| 21. Average rate of wages?                                                                                                            | 21. Answered in question 10.                                                                                               |

## DOCUMENT 14.—No. 187.

*Straw Paper Mill, Crawford County, West Pennsylvania.*

| QUESTIONS.                                                                           | ANSWERS.                                     |
|--------------------------------------------------------------------------------------|----------------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Meadville, Crawford county, Pennsylvania. |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. Straw paper mill; water power.            |
| 3. When established; and whether a joint stock concern?                              | 3. 1828. Individual concern.                 |

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. \$16,000.                                                                                                                                                               |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. \$3,122.                                                                                                                                                                |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. 30 per cent., no money borrowed.                                                                                                                                        |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. No material change.                                                                                                                                                     |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Thirty-three per cent.                                                                                                                                                  |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. \$9,000, or 9,200 reams of crown wrapping, at \$1 per ream, equal to 9,200 lbs. of book boards, at 5 cents per lb., or any other paper in proportion to the weight, &c. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. 92 tons of straw, at \$5 per ton; and 22,080 lbs. salts of lye, at 3 cents, \$662 40, making together \$1,122 40, all domestic.                                        |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. None imported.                                                                                                                                                         |
| 12. Number of men, women, and children, employed; and average wages of each class?                                                                                                                                                                                                                   | 12. 8 men and 3 girls; men \$225 per annum, girls \$75 per annum.                                                                                                          |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                     | 13. 14 hours, all the year.                                                                                                                                                |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 14. Correspond, generally, with the wages as stated above.                                                                                                                 |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. 2 horses, $\frac{1}{4}$ of the year, would be a proper proportion of the time actually engaged.                                                                        |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. Market made principally north and south from 300 to 500 miles.                                                                                                         |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                           | 17. I know of no foreign article of the kind in the same market.                                                                                                           |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. In the United States.                                                                                                                                                  |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                                                            | 19. None exported.                                                                                                                                                         |
| 20. Whether the manufacture is sold by the manufacturer for cash? and, if on credit, at what credit? if bartered, for what?                                                                                                                                                                          | 20. Generally bartered; north, for lake fish, &c.; south, for tobacco, cordage, rice, nails, glass, &c. &c.                                                                |
| 21. Whether the cost of the manufactured article (to the manufacturer,) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                         | 21. No material change.                                                                                                                                                    |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                 | 22. Will average from 5 to 6 cents per lb.                                                                                                                                 |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. Per centage, so as to prevent importation.                                                                                                                                                                                                                                  |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. I do not know.                                                                                                                                                                                                                                                              |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. From 25 to 30 per cent.; all goes to carry on the establishment.                                                                                                                                                                                                            |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. The hands finding themselves: it is presumed their expenses in provisions and clothing is equal to their wages as stated above; and all is of the production of the country principally.<br>28. 30,000 reams in Pennsylvania, and in the United States about 140,000 reams. |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                       | 29. If imported, we cannot manufacture to advantage.                                                                                                                                                                                                                            |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 30. I do not know at present: it no doubt would be very injurious.                                                                                                                                                                                                              |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 31. I do not know; I would have to abandon the paper business, and continue engaged in trade as usual.                                                                                                                                                                          |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                              | 32. Do not know.                                                                                                                                                                                                                                                                |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                                                                                                | 33. Ditto.                                                                                                                                                                                                                                                                      |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                                                                                               | 34. Ditto.                                                                                                                                                                                                                                                                      |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent.; and how gradual the reduction should be?                                                                                                                                                                | 35. Ditto.                                                                                                                                                                                                                                                                      |
| 35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum?                                                                                                                           | 36. Ditto.                                                                                                                                                                                                                                                                      |
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                 |

## DOCUMENT 14.—No. 187.—Continued.

| QUESTIONS.                                                                                                                        | ANSWERS.         |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------|
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                       | 37. Do not know. |
| 38. Extent of individual and household manufactures in the United States, and how much it has increased since the tariff of 1824? | 38. Ditto.       |
| 39. Average profit of money or capital in the United States?                                                                      | 39. Ditto.       |
| 40. Average rate of wages?                                                                                                        | 40. Ditto.       |

WM. MAGAW.

## DOCUMENT 14.—No. 188.

*Paper Manufactory, Erie County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Pennsylvania, Erie county.                                                                                                                                       |
| 2. Kind or description of the manufactory?                                                                                            | 2. Paper manufactory.                                                                                                                                               |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Six thousand dollars.                                                                                                                                            |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Amount of materials used \$3,500, probably half purchased with cash. Cash paid for wages \$2,000.                                                                |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Average amount manufactured \$10,100, printing paper, writing and wrapping paper; printing, value \$4 50 per ream; writing, value \$3 50 per ream; wrapping \$1. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. 30 tons of rags, at \$100 per ton; sundry other materials: all domestic products.                                                                                |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. 5 men, \$1 per day; 6 women \$1 75 per week.                                                                                                                    |
| 11. How many hours a day employed, and what portion of the year?                                                                      | 11. 12 hours per day in summer, 9 in winter: employed the whole year.                                                                                               |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. At the manufactory and its vicinity.                                                                                                                            |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?            | 13. No competition of foreign articles.                                                                                                                             |
| 14. Where are the manufactures consumed?                                                                                              | 14. In this vicinity.                                                                                                                                               |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                             | 15. Not any.                                                                                                                                                        |
| 16. Whether the manufacture is sold by the manufacturer for cash? if on a credit, at what credit? if bartered, for what?              | 16. For cash and rags.                                                                                                                                              |
| 19. What has been the rate of your profits annually for the last three years?                                                         | 19. After deducting contingent expenses, about \$3,000.                                                                                                             |

B. PELTON.

## DOCUMENT 14.—No. 189.

*Paper Mill, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Fayette county, Pennsylvania, Foygheny river.                                                                                                                                    |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Two-vat paper mill; water power.                                                                                                                                                 |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. 1830; joint stock concern.                                                                                                                                                       |
| 4. Capital invested in ground and buildings, and water power and in machinery?                                                                                                                                                                                                                       | 4. \$10,000.                                                                                                                                                                        |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. \$8,677; about one-half in cash, balance bartered.                                                                                                                               |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. Allow \$800 interest on capital invested, \$600 for manager and clerk, \$300 for wear and tear of machinery, leaves a small profit, if any: we know nothing of borrowed capital. |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. Decrease, owing to competition.                                                                                                                                                  |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. 2,400 reams of cap at \$2 50, \$6,000; printing paper, 700 reams at \$4, \$2,800; 800 reams wrapping, average \$1; 100 granite net boards at \$4 25, \$425 00—\$10,025.          |
| 10. Quantity and value of different kinds of raw material used; distinguishing between foreign products and domestic products?                                                                                                                                                                       | 10. 60,000 lbs. rags at 6 cents, \$3,600; 5,000 lbs. scraps at 4, \$200; alum and indigo \$60, \$3,860.                                                                             |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                                                                     | 12. Eight men at \$4 75 per week, 10 boys at \$1 78 per week, 17 girls at \$1.                                                                                                      |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                     | 13. The work goes all the time; 12 hours.                                                                                                                                           |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. One three-horse team collecting stock and selling paper.                                                                                                                        |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. One-third at home; balance sent to Pittsburgh, Wheeling, &c.                                                                                                                    |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. Through the western country.                                                                                                                                                    |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                                                            | 19. None.                                                                                                                                                                           |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                           | 20. One-fourth part for cash at a credit of six months; the balance bartered for stock, merchandise, provisions, &c.                                                                |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                          | 21. Not much variation since we commenced.                                                                                                                                          |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                 | 22. Cap from 2 to \$3, printing \$3 50 to \$4 75 per ream.                                                                                                                          |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                           | 23. Prohibition to the foreign article. American enterprise and competition will reduce it as low as can be afforded.                                                               |

## DOCUMENT 14.—No. 189—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                  | ANSWERS.                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 25. What has been the rate of your profits, annually, for the last three years? and, if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. As yet we have declared no dividend; see no prospect of profit, home competition having made the business poor. |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                            | 27. \$1,500, agriculture; \$3,800, rags and scraps.                                                                 |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                     | 29. It certainly would, for it is a <del>nausea</del> business now.                                                 |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                              | 30. Our capital would be lost in buildings and machinery.                                                           |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                               | 31. Yes; <del>grubbing</del> and raising stock.                                                                     |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                                                                                                 | 32. We think not.                                                                                                   |
| 40. Average rate of wages?                                                                                                                                                                                                                                                                                                                  | 40. From 7 to \$9, common laborers.                                                                                 |

JOSEPH TREVOR &amp; CO.

## DOCUMENT 14.—No. 190.

*Redstone Paper Mill, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.                                      |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. State of Pennsylvania, Fayette county.     |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?            | 2. Paper mill; water power; two vats.         |
| 3. When established, and whether a joint stock concern?                                         | 3. Established in 1799; joint concern.        |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                 | 4. Capital invested \$10,000.                 |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 5. \$6,750 per annum for wages and materials. |

| QUESTIONS.                                                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of the profit upon that portion which is not borrowed? | 6. First ten years 10 per cent., succeeding ten years 7½ per cent., last ten years 5 per cent.          |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                                  | 7. Decrease of profit owing to increased competition at home.                                           |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                           | 8. From 25 per cent. to 33 a 40 per cent.                                                               |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                    | 9. \$10,000 per annum; writing, printing and wrapping paper.                                            |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                          | 10. 35 tons domestic rags, at \$100 per ton.                                                            |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                          | 11. Imported from England at about 5 per cent. less, but inferior.                                      |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                                                                         | 12. 11 men at \$250 per year, 20 a 25 females at 52 a \$75 per annum.                                   |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                         | 13. Eight hours per day, throughout the year.                                                           |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                         | 14. About equal in our country, 10 per cent. less abroad.                                               |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                          | 15. Five horses constantly employed.                                                                    |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                | 16. Not vended at the factory, but sold in every section of our country.                                |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                               | 17. None of the foreign article in the west.                                                            |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                 | 18. Wherever there is business or circulation.                                                          |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                                 | 19. None exported from the west.                                                                        |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                               | 20. No sales for cash; bartered for any thing we can get.                                               |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                              | 21. Ten per cent. increase of cost in the ten years: increase arises from increased value of materials. |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                     | 22. From \$4 80 per ream to \$10, and down to 75 cents.                                                 |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                               | 23. Left to the wisdom of Congress.                                                                     |
| 25. What has been the rate of your profits, annually, for the last three years? and, if it be a joint stock company, what divi-                                                                                                                                                                          | 25. About 5 per cent.; joint stock, none.                                                               |

## DOCUMENT 14.—No. 190—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                            | ANSWERS.                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <p>dends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually?</p>                                                                                  |                                                                                                                     |
| <p>26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?</p>                                                                                                                   | <p>26. Raw material <math>\frac{1}{2}</math>, wages <math>\frac{1}{4}</math>, capital <math>\frac{1}{4}</math>.</p> |
| <p>27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?</p>                                                                                                                                               | <p>27. Total amount of wages, with the addition of 25 per cent.</p>                                                 |
| <p>28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?</p>                                                                                                                                                           | <p>28. Not able to answer.</p>                                                                                      |
| <p>29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12<math>\frac{1}{2}</math> per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?</p> | <p>29. Could not continue in the business; must abandon it.</p>                                                     |
| <p>30. If it would cause you to abandon your business, in what way would you employ your capital?</p>                                                                                                                                                                                                 | <p>30. In buying and selling the foreign article.</p>                                                               |
| <p>31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to twelve and a half per cent.?</p>                                                                                                                    | <p>31. The amount in capital might be employed in any thing else to a better advantage.</p>                         |
| <p>33. Amount of capital, and what proportion the borrowed capital bears to that which is real?</p>                                                                                                                                                                                                   | <p>33. Capital employed about \$10,000.</p>                                                                         |
| <p>37. Proportion which the production by the American manufacturers bears to the consumption?</p>                                                                                                                                                                                                    | <p>37. Manufactures equal to the consumption.</p>                                                                   |
| <p>38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?</p>                                                                                                                                                               | <p>38. Increased since 1824 75 per cent.</p>                                                                        |
| <p>40. Average rate of wages?</p>                                                                                                                                                                                                                                                                     | <p>40. From 8 to \$10, common labor.</p>                                                                            |

REDSTONE PAPER MILL, 1832.

SHEARPLESS &amp; CO.

## DOCUMENT 14.—No. 191.

*John McCahan's Paper, Grist, and Oil Mills, Laurel Spring, Huntingdon County, West Pennsylvania.*

| QUESTIONS.                                                       | ANSWERS.                                               |
|------------------------------------------------------------------|--------------------------------------------------------|
| <p>1. State and county in which the manufactory is situated?</p> | <p>1. State of Pennsylvania, county of Huntingdon.</p> |



| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2. Kind or description of the manufactory?                                                                                                 | 2. Paper mill, grist mill, and oil mill, at Laurel Spring, near the Borough of Bingham.                                                                                                                                                                                                                                                                                    |
| 3. Capital invested in ground and buildings?                                                                                               | 3. Ten thousand dollars.                                                                                                                                                                                                                                                                                                                                                   |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. The paper mill uses one ton and a half of rags per month, for which we pay \$1.50, wages to six men 75 cents each per day, and they find themselves, or 50 cents and four girls, 50 cents per day and they find themselves, or 25 and found; oil 14 gallons to one bushel of flaxseed.                                                                                  |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. On paper 25 per cent; on oil 25 cents.                                                                                                                                                                                                                                                                                                                                  |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                    | 6. Profits on paper have materially increased, in consequence of mills being a operation which manufacture altogether by machinery, and dispense with manual labor. Laurel Spring mills do not dispense with the manual labor. Profits of oil have decreased, owing to the increased price of raw materials, and not a proportionate increase in the manufactured article. |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. Paper manufactured of every description, and various qualities. Don't know the amount.                                                                                                                                                                                                                                                                                  |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. Previously answered as to quantity and value; products altogether domestic.                                                                                                                                                                                                                                                                                             |
| 10. Number of men, women and children employed, and average wages of each class?                                                           | 10. Previously answered.                                                                                                                                                                                                                                                                                                                                                   |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. Every day, (Sundays excepted), about ten hours each day.                                                                                                                                                                                                                                                                                                               |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. Consumed in the county.                                                                                                                                                                                                                                                                                                                                                |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 13. Paper enters into competition to some considerable extent; no competition in oil.                                                                                                                                                                                                                                                                                      |
| 14. Where are the manufactures consumed?                                                                                                   | 14. Answered.                                                                                                                                                                                                                                                                                                                                                              |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                  | 15. No.                                                                                                                                                                                                                                                                                                                                                                    |
| 16. Whether the manufacture is sold by the manufacturer for cash? and, if on credit, at what credit? if bartered, for what?                | 16. Generally on credit and barter.                                                                                                                                                                                                                                                                                                                                        |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Various prices.                                                                                                                                                                                                                                                                                                                                                        |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. We will be satisfied with the result of legislation.                                                                                                                                                                                                                                                                                                                   |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 19. About 25 per cent.                                                                                                                                                                                                                                                                                                                                                     |

JOHN McCABAN.

## DOCUMENT 14.—No. 192,

*Messrs. Alexander & Co.'s Paper Mill, Luzerne County, Western Pennsylvania.*

## ANSWERS.

1. State and county in which the manufactory is situated?
2. Kind or description of the manufactory; and whether water, steam, or other power?
3. When established, and whether a joint stock concern?
4. Capital invested in ground and buildings, and water power, and in machinery?
5. Average amount in materials, and in cash for the purchase of materials and payment of wages?
6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed?
7. Cause of the increase (or decrease, as the case may be,) of profit?
8. Rates of profit on capital otherwise employed in the same State and county?
9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?
10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?
12. Number of men, women, and children employed, and average wages of each class?
13. How many hours a day employed; and what portion of the year?
15. Number of horses or other animals employed?
16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?
20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?
22. The prices at which the manufactures have been sold by the manufacturer since the establishment?
29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?

## QUESTIONS.

1. State of Pennsylvania, Luzerne county.
2. Paper manufactory, with water power.
3. Came into the present proprietors' hands in 1830; is a joint stock concern.
4. Amount for which the land and buildings were purchased, say \$5,000.
5. Materials yearly, \$2,500; pay of wages, \$750.
6. The last year \$1,100.
7. Not known.
8. From 6 to 20 per cent.
9. 1,500 reams imperial, printing, \$3 75, \$3 50, \$3 00, \$2 50.
10. Rags from 4 to 8 cents per pound, domestic, 20 tons.
12. Men, 5; 6 women, and 1 boy.
13. 6 hours per diem throughout the year.
15. 2 horses.
16. A portion at the manufactory; the balance 120 miles from it.
20. At home, for cash and rags; 6 months' credit in Philadelphia.
22. The same as above stated.
29. Must undoubtedly abandon.

## DOCUMENT 14.—No. 193.

*Paper Manufactory, Westmoreland County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Westmoreland county, Pennsylvania.                                                                 |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Paper manufactory; steam power.                                                                    |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Established 20 years, and a joint concern.                                                         |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. 8 or \$9,000.                                                                                      |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. 10 or \$12,000.                                                                                    |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. At the rate of 18 per cent. on the money invested.                                                 |
| 7. Cause of the increase (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                               | 7. Increase of profit was occasioned by tariff.                                                       |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. The amount manufactured has been about \$15,000 per annum.                                         |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. No foreign materials used; all domestic.                                                          |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. About 20 men and women; men about \$4 50, and women about \$1 25.                                 |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                     | 13. Men generally employed about 7 hours the whole year.                                              |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 14. Laboring men about \$10 to \$12 per month for farming.                                            |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. 6 horses generally employed in hauling coal, rags, and paper.                                     |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. We mostly send our paper to Pittsburgh, and there sold by agents.                                 |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                           | 17. No foreign paper to our knowledge enter in competition where we make any, where we manufacture.   |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. Mostly is consumed in the western country, viz. Ohio, Kentucky, Tennessee, &c.                    |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                           | 20. Commonly sold on a credit of 3 and 6 months; if sold for cash have to make considerable discount. |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                          | 21. The price of paper is decreased on account of the quantity manufactured in the State to the east. |

## DOCUMENT 14.—No. 193.—Continued.

| QUESTIONS.                                                                                           | ANSWERS.                                                                                                                      |
|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment? | 22. Paper generally been sold, of our manufacture, say No. 1 \$3 50, No. 2 \$3 00, No. 3 \$2 50; coarse papers in proportion. |

The other queries we cannot satisfactorily answer.

G. B. & C. P. MARKS.

Messrs. LYNCH & FOSTER.

GENTLEMEN: I have received this paper but this moment. I send it to you, thinking it may be of some service; and, hoping it may be so,

I remain yours, respectfully,

EDWARD JOHNSTON.

May 1st, 1832.

N. B. This is the only paper mill in the county.

E. J.

## DOCUMENT 14.—No. 194.

Glass, Alleghany County, West Pennsylvania.

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Alleghany county, Pennsylvania.                                                                                                                                                                                      |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Flint glass; steam power is used for cutting glass and pulverizing materials.                                                                                                                                        |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Established in 1827; a private company.                                                                                                                                                                              |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Upwards of \$30,000, and the ground on perpetual lease.                                                                                                                                                              |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. Materials, fuel, and labor, cost above \$30,000.                                                                                                                                                                     |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. None of our capital is borrowed; the remainder is private.                                                                                                                                                           |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. A strong domestic competition has reduced both price and profit considerably.                                                                                                                                        |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Of this we are ignorant.                                                                                                                                                                                             |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. We make upwards of \$40,000 worth of all articles of flint glass.                                                                                                                                                    |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. Answered in No. 5. Our materials, such as pearlash, lead, sand, and clay, are all the produce of domestic labor.                                                                                                    |
| 11. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. We employ in the factory 20 men and 16 boys, besides giving a great deal of work to various subsidiary tradesmen in town. The wages vary from 5 to 20 dollars per week for men, and from \$1 50 to \$3 50 for boys. |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                                                           | 13. Steady day and night.                                                                                                                                                             |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                                                           | 14. As No. 8.                                                                                                                                                                         |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. One horse for draught.                                                                                                                                                            |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. Chiefly at the factory, and by wagon in town.                                                                                                                                     |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                                                                 | 17. None we believe at present.                                                                                                                                                       |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. Through all the country west of the mountains.                                                                                                                                    |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                                                                   | 19. None by ourselves; but we believe eastern manufacturers export a considerable quantity.                                                                                           |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Chiefly on a credit of about 6 months.                                                                                                                                            |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                | 21. Nearly stationary, except lead, which has lately risen in price.                                                                                                                  |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. There has been a gradual decline in the price for some years.                                                                                                                     |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. We consider the present rate of duty essentially necessary, as keeping down the price by domestic competition, which will be destroyed by any considerable reduction of the duty. |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. Unable from our local situation to answer.                                                                                                                                        |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. See questions No. 3 and No. 6.                                                                                                                                                    |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. See question No. 5. We consider the profit of our business depends as much upon our own labor as interest of capital.                                                             |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. We have nearly 20 families depending upon us, but as we pay them in cash, we cannot say how they lay it out.                                                                      |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                       | 28. Cannot say.                                                                                                                                                                       |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make                                                                                                                                                                                                                                                           | 29. Undoubtedly it would cause us to abandon it, or rather it would abandon us.                                                                                                       |

## DOCUMENT 14.—No. 194—Continued.

| QUESTIONS.                                                                                                                                                                                                              | ANSWERS.                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?</p>                           |                                                                                                                                                                                                                                                                                                              |
| <p>30. If it would cause you to abandon your business, in what way would you employ your capital?</p>                                                                                                                   | <p>30. In this case our buildings, furnace; ovens, machinery, tools, utensils, &amp;c. would be completely valueless; our book debts difficult or impossible to collect, and ourselves unable to meet the demands against us, that "the benefit of the act" and the poor-house appear our only resource.</p> |
| <p>31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?</p>                                                    |                                                                                                                                                                                                                                                                                                              |
| <p>32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?</p>                      |                                                                                                                                                                                                                                                                                                              |
| <p>33. Amount of capital, and what proportion the borrowed capital bears to that which is real?</p>                                                                                                                     |                                                                                                                                                                                                                                                                                                              |
| <p>34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent., and how gradual the reduction should be?</p>                                      |                                                                                                                                                                                                                                                                                                              |
| <p>35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum?</p> |                                                                                                                                                                                                                                                                                                              |
| <p>36. What would be the operation of this change upon the frauds at present supposed to be practised?</p>                                                                                                              | <p>These questions we feel incompetent to answer.</p>                                                                                                                                                                                                                                                        |
| <p>37. Proportion which the production by the American manufacturers bears to the consumption?</p>                                                                                                                      |                                                                                                                                                                                                                                                                                                              |
| <p>38. Extent of individual or household manufacture in the United States, and how much it has increased since the tariff of 1824?</p>                                                                                  |                                                                                                                                                                                                                                                                                                              |
| <p>39. Average profit of money or capital in the United States?</p>                                                                                                                                                     |                                                                                                                                                                                                                                                                                                              |
| <p>40. Average rate of wages?</p>                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                              |

R. B. CURLING &amp; SONS.

## DOCUMENT 14.—No. 195.

*Glass Manufactory, Alleghany County, West Pennsylvania.*

| QUESTIONS.                                                                                  | ANSWERS.                                                           |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <p>1. State and county in which the manufactory is situated?</p>                            | <p>1. Pennsylvania, county of Alleghany.</p>                       |
| <p>2. Kind or description of the manufactory; and whether water, steam, or other power?</p> | <p>2. Flint glass of all descriptions; steam where applicable.</p> |

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. In 1808; not a joint stock concern.                                                                                                           |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. One hundred thousand dollars.                                                                                                                 |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. The whole paid in cash.                                                                                                                       |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. No part of the capital is borrowed.                                                                                                           |
| 7. Cause of increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                                    | 7. Prices have decreased, partly owing to competition, and partly to increased skill in the manufacture.                                         |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Unable to say.                                                                                                                                |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. Has varied from 20,000 to \$100,000.                                                                                                          |
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. Of lead, annually, about 80,000 lbs.; pearl ashes about the same; sand, 150 tons; wood, 50 cords; fuel, 50,000 bushels: all domestic.        |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. Unknown as to value; England, and Germany, some from France.                                                                                 |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. About 60 persons; wages varying from \$1 50 to \$14 per week.                                                                                |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                     | 13. From 10 to 12 hours, all the year round.                                                                                                     |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 14. Unknown.                                                                                                                                     |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. One horse, occasionally two.                                                                                                                 |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. Part are sold at the factory; part sent through the western States.                                                                          |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                           | 17. Foreign glass, on which a bounty is paid on exportation, comes into competition with flint glass.                                            |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. Principally in the western country.                                                                                                          |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                                                            | 19. Have not exported glass to foreign countries.                                                                                                |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                           | 20. Generally on a credit of 6 months.                                                                                                           |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                          | 21. The expense of manufacture has decreased by introducing machinery and employing apprentices. The prices of materials have varied but little. |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                 | 22. The prices, since the commencement of the establishment have been reduced from 33½ to 50 per cent.                                           |

## DOCUMENT 14.—No. 195—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 23. Exclusive of foreign bounties, twenty-five per cent. would suffice.                                                                                   |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                           | 24. If flint glass was subject to a specific duty of four cents, and the present ad valorem duty abolished, it is believed frauds would not be committed. |

As most of the queries subsequent to No. 24 have been previously answered, or we are unable to answer them, it is not deemed important to notice them.

BAKEWELL, PAGE, & BAKEWELL.

## DOCUMENT 14.—No. 196.

*Brownsville Glass Works, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufacture is situated?                                                                             | 1. Fayette county, Pennsylvania.                                                                            |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Window glass and glassware.                                                                              |
| 3. When established; and whether a joint stock concern?                                                                               | 3. About the year 1827; a joint concern.                                                                    |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                       | 4. Seven thousand dollars.                                                                                  |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                      | 5. Eighteen thousand five hundred dollars.                                                                  |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. 4,500 boxes window glass, at<br>\$4 per box - \$18,000<br>\$2,000 worth of glassware - 2,000<br>\$20,000 |
| 12. Number of men, women, and children employed, and average wages of each class?                                                     | 12. 27 men and boys, average \$7,250 per annum.                                                             |
| 13. How many hours a day employed, and what portion of the year?                                                                      | 13. From 8 to 12 hours per day; 11 months per year.                                                         |
| 15. Number of horses or other animals employed?                                                                                       | 15. 2 horses.                                                                                               |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 16. We do not find a market at the factory, nor at a less distance than two or three hundred miles.         |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?            | 17. Foreign glass comes into competition at the eastern markets.                                            |
| 18. Where are the manufactures consumed?                                                                                              | 18. Principally in the East, Baltimore, and Philadelphia.                                                   |
| 20. Whether the manufacture is sold by the manufacturer for cash? and, if on credit, at what credit? if bartered, for what?           | 20. Principally sold on a credit at from 3 to 6 months.                                                     |



## DOCUMENT 14.—No. 196—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                 | ANSWERS.                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. Glass has decreased since 1827 about ten per cent.; materials have increased about six per cent. |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                 | 23. 8 dollars per hundred feet 18-15 and all other sizes in proportion.                              |
| 40. Average rate of wages?                                                                                                                                                                                                                                 | 40. See answer to query 12th.                                                                        |

BROWNSVILLE GLASS WORKS, *April 16, 1832.*

JOHN TAYLOR &amp; CO.

## DOCUMENT 14.—No. 197.

*Glass Manufactory, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Pennsylvania, Fayette county.                                                                                                                                                           |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Window glass.                                                                                                                                                                           |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                       | 4. 4,500 dollars.                                                                                                                                                                          |
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                 | 7. Home competition was the cause of decrease.                                                                                                                                             |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. 4,000 boxes window glass at \$3 25 cents per box.                                                                                                                                       |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?       | 10. Wood \$600; sand \$250; stone \$120; ashes \$400; brick \$100; plank \$400; potash \$200; potash \$3,500; coal, \$1,200; and German clay \$700.                                        |
| 12. Number of men, women, and children employed, and average wages of each class?                                                     | 12. 8 blowers; 85 cts. for blowing 100 window glass; 7 hands at \$18 per month; 8 boys at \$4 per month; 3 coal diggers, at 1 wagoner at 16 per month each; 2 glass cutters at 18 per box. |
| 15. Number of horses or other animals employed?                                                                                       | 15. 6 horses.                                                                                                                                                                              |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 16. 30 miles.                                                                                                                                                                              |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?            | 17. They do not.                                                                                                                                                                           |

## DOCUMENT 14.—No. 197—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                  | ANSWERS.                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                    | 18. Supposed chiefly in the United States.                                   |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                   | 19. Ditto. Ditto.                                                            |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                  | 20. Merchandise, cash, and materials.                                        |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. Decreased.                                                               |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                            | 27. 2,000 dollars agricultural productions; \$5,400 other domestic products. |

MARTIN &amp; BAKER.

PERRYTOPOLIS, April 17, 1832.

## DOCUMENT 14.—No. 198.

*N. & P. Swearer's Bridgeport Glass Works, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Fayette county, Pennsylvania.                                                                                               |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Window glass and green glassware.                                                                                           |
| 3. When established, and whether a joint concern?                                                                                     | 3. In and about 1811; joint concern.                                                                                           |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                       | 4. To the men now carrying on unknown, but suppose it to have cost \$15,000.                                                   |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. Eighteen thousand dollars.                                                                                                  |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. For the last eight years 4,500 boxes per year, at \$4 per 100 feet, \$18, and \$2,000 worth of ware; prior to that unknown. |
| 12. Number of men, women and children employed, and average wages of each class?                                                      | 12. 27 men and boys, average per annum 7,300.                                                                                  |
| 13. How many hours a day employed, and at what portion of the year?                                                                   | 13. From 8 to 13 hours per day, 11 months in the year.                                                                         |
| 15. Number of horses or other animals employed?                                                                                       | 15. One horse.                                                                                                                 |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they sent to a market?                                 | 16. No market at home; shortest distance to a market say 300 miles.                                                            |
| 17. Whether foreign articles of the like kind enter into competition with them at a place of sale, and to what extent?                | 17. A competition at the eastern markets.                                                                                      |

## DOCUMENT 14.—No. 198—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                   | 18. Louisville, Ky., Baltimore, Md., Philadelphia, Pa.                                                                                                                                           |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                  | 19. Unknown.                                                                                                                                                                                     |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased, and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. Glass has sold at the establishment when first put into operation, at \$14 per 100 feet, 8 by 10; but at present—(see answer to query 9th, as to increase or decrease on materials unknown.) |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                       | 22. See answers to queries 9 and 21.                                                                                                                                                             |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                 | 23. Eight dollars per 100 feet for 10 by 14 glass; and all other sizes, above and below, in proportion; glassware likewise.                                                                      |
| 40. Average rate of wages?                                                                                                                                                                                                                                 | 40. Answered by query 12.                                                                                                                                                                        |

BRIDGEPORT GLASS WORKS, April 18, 1832.

N. & P. SWEARD,  
By JAMES REYNOLDS, Jr.

## DOCUMENT 14.—No. 199.

*S. C. Bever & Co.'s Glass Works, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                        |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Fayette county, Pennsylvania.                |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Window glass and glassware.                  |
| 3. When established, and whether a joint stock concern?                                                                               | 3. About the year 1820; a joint concern.        |
| 4. Capital invested in ground and buildings, and in machinery?                                                                        | 4. About twenty thousand dollars.               |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. Twelve thousand five hundred dollars.        |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. About 3,500 boxes glass, at \$4.             |
| 12. Number of men, women and children employed, and average wages of each class?                                                      | 12. Men and boys, 27, average \$7.16 per annum. |
| 13. How many hours a day employed, and what portion of the year?                                                                      | 13. From 8 to 12 hours per day, say 11 months.  |
| 15. Number of horses or other animals employed?                                                                                       | 15. Five horses.                                |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 16. We do not find a market at home.            |

## DOCUMENT 14.—No. 199—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                 | ANSWERS.                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                 | 17. The foreign article comes in competition east.             |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                   | 18. Principally in the east.                                   |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                 | 20. Principally sold on credit at from four to six months.     |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. The price of glass decreased, and the materials increased. |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                 | 23. Eight dollars per 100 feet 10 by 12 window glass.          |
| 40. Average rate of wages?                                                                                                                                                                                                                                 | 40. See answer to query 12.                                    |

REDSTONE GLASS WORKS, *April 14, 1832.*

S. C. BEVER &amp; Co.

## DOCUMENT 14.—No. 300.

*Glass Manufactory, Green County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Green county, State of Pennsylvania.                                                                                |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Green window glass.                                                                                                 |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Original works established about 35 years since; present firm a joint stock concern, established two years since.   |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. The value of the factory and real property attached to it, and occupied by hands, &c., may be estimated at \$8,000. |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. About \$10,000.                                                                                                     |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. Annual profit of the establishment, say \$2,000.                                                                    |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. Domestic competition perhaps the greatest cause.                                                                    |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. About 4,000 boxes green window glass.                                                                               |

## DOCUMENT 14.—No. 200—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                            | 10. All the materials used are domestic productions, and may cost at an average of \$4,000.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 12. Number of men, women, and children, employed, and average wages of each class?                                                                                                                                                                         | 12. 18 men and 10 boys; wages, 1st. 1 men at an average of \$450 per annum, 5 at 200, 2 at 150, 1 at 125, and 10 boys at 5 per annum.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                           | 13. Eight hours each day, nine months in the year.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 14. Rate of wages of similar classes otherwise employed in the same State and country, in other States, and in foreign countries?                                                                                                                          | 14. From 100 to \$200 per annum, common laborers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                            | 15. Four.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                  | 16. Pittsburgh is the principal market; some small quantities are sent to the eastern cities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                 | 20. A portion is disposed of for cash; a portion on a credit, ranging from 3 to 12 months, and a portion in exchange for raw materials and merchandise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. It has steadily decreased in price for the last 10 or 12 years.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                       | 22. The glass of the present establishment is disposed of at prices varying from \$3.50 to \$4 per box.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                 | 23. When this work was first established, being the only one in the western country, the glass was sold readily at from twelve to fifteen dollars per box. Ten or fifteen years after its establishment, the manufactured article had declined to about eight dollars. During the war it was a fraction higher. In the next ten years it fell to about five dollars and during the last eight or ten years it has declined to the prices in answer to query. The numerous factories of this kind springing up in its neighborhood since its establishment, has, no doubt, been the principal cause of the decline in the price of the article. The raw materials necessary for the manufacture, have not fallen in price in the same proportion, but are comparatively higher. |

B. F. BLACK &amp; CO.

## DOCUMENT 14.—No. 201.

*Tannery, Pittsburgh, Alleghany County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Pennsylvania, Alleghany county, city of Pittsburgh.          |
| 2. Kind or description of the manufactory?                                                                                            | 2. Manufacture leather in all its varieties, including morocco. |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Fifteen thousand dollars.                                    |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Can't say.                                                   |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. All kinds of leather, about \$20,000.                        |
| 10. Number of men, women and children employed, and average wages of each class?                                                      | 10. Fifteen men and boys.                                       |
| 11. How many hours a day employed; and what portion of the year?                                                                      | 11. Twelve hours per day.                                       |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. All sold at home; great portion of it is taken west.        |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 15. None.                                                       |
| 21. Average rate of wages?                                                                                                            | 21. 18 to 30 dollars per month.                                 |

JOHN CALDWELL.

## DOCUMENT 14.—No. 202.

*John Hay's Tannery, Alleghany County, West Pennsylvania.*

| QUESTIONS.                                                                                                                 | ANSWERS.                                    |
|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                  | 1. Alleghany county, State of Pennsylvania. |
| 2. Kind or description of the manufactory?                                                                                 | 2. Tanner and currier.                      |
| 3. Capital invested in ground and buildings?                                                                               | 3. Ten thousand dollars.                    |
| 11. How many hours a day employed; and what portion of the year?                                                           | 11. All day.                                |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                  | 12. Principally at home and Ohio.           |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what? | 16. Generally on a credit.                  |
| 20. Amount of capital?                                                                                                     | 20. Twenty thousand dollars.                |
| 21. Average rate of wages?                                                                                                 | 21. 18 to \$26 a month.                     |

WM. HAYS &amp; SONS.

## DOCUMENT 14.—No. 303.

*William Trimble's Tannery, Armstrong County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. State of Pennsylvania, Armstrong county.                                    |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Tannery.                                                                    |
| 3. Capital invested in ground and buildings?                                                                                               | 3. One thousand dollars.                                                       |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. Nine hundred dollars.                                                       |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. Thirty-three per cent.                                                      |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. 150 hides; 125 of sole, best quality, at \$7 each; 125 of upper, worth \$6. |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. Two men, at \$12 per month.                                                |
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. 8 hours per day, and 10 months of the year.                                |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. Market at the manufactory.                                                 |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 13. None brought here.                                                         |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In Armstrong county.                                                       |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. None.                                                                      |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Cash.                                                                      |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Same as above.                                                             |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. None.                                                                      |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 19. Twenty-eight per cent.                                                     |
| 20. Amount of capital?                                                                                                                     | 20. Nineteen hundred dollars.                                                  |

WILLIAM L. TRIMBLE

## DOCUMENT 14.—No. 304.

*John Reynolds & Co.'s Tannery, Armstrong County, West Pennsylvania.*

| QUESTIONS.                                                | ANSWERS.                                    |
|-----------------------------------------------------------|---------------------------------------------|
| 1. State and county in which the manufactory is situated? | 1. State of Pennsylvania, Armstrong county. |
| 2. Kind or description of the manufactory?                | 2. Tannery.                                 |

## DOCUMENT 14.—No. 204—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 3. Capital invested in ground and buildings?                                                                                               | 3. Five hundred dollars.                                                                  |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. Fifteen hundred dollars.                                                               |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. Twenty-five per cent.                                                                  |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. 300 hides: 150 of sole, at \$6, and 150 of upper, at \$2 50 each, of the best quality. |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. Two men, at \$10 per month.                                                           |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. 10 hours per day, and 10 months per year.                                             |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. Market at the manufactory.                                                            |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In this county.                                                                       |
| 15. Whether any of the manufactures are exported to foreign countries? And if so, where?                                                   | 15. None.                                                                                 |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Cash.                                                                                 |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Same as above.                                                                        |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. None.                                                                                 |
| 19. What has been the rate of your profits annually for the last three years?                                                              | 19. Twenty-five per cent.                                                                 |
| 20. Amount of capital?                                                                                                                     | 20. Fifteen hundred dollars.                                                              |

JOHN REYNOLDS &amp; Co.

## DOCUMENT 14.—No. 205.

*Tannery, Alleghany Township, Armstrong County, West Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.                                              |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Alleghany township, Armstrong county, Pennsylvania |
| 2. Kind or description of the manufactory?                                                      | 2. A tannery.                                         |
| 3. Capital invested in ground and buildings?                                                    | 3. One thousand dollars.                              |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 4. Four hundred dollars.                              |



## DOCUMENT 14.—No. 205—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. Thirty per cent.                                                                                                      |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                    | 6. On account of the importation of the article from abroad.                                                             |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. Sole leather, upper, and calf skins; sole for 24 cents. per lb.; upper \$24 per dozen, and calf skins \$15 per dozen. |
| 10. Number of men, women and children employed, and average wages of each class?                                                           | 10. Two men at \$12 per month, and one boy at \$4.                                                                       |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. At the manufactory.                                                                                                  |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                 | 13. Foreign enter into competition by 30 per cent.                                                                       |
| 14. Where are the manufactures consumed?                                                                                                   | 14. At and in the immediate vicinity.                                                                                    |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. None exported.                                                                                                       |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. At the prices above.                                                                                                 |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. Twenty per cent.                                                                                                     |
| 19. What has been the rate of your profits annually for the last three years?                                                              | 19. Thirty per cent. on the capital invested.                                                                            |
| 21. Average rate of wages?                                                                                                                 | 21. Twelve dollars.                                                                                                      |

Yours, respectfully,

JOHN WORT.

## DOCUMENT 14.—No. 206.

*Tannery, Armstrong County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Pennsylvania, Armstrong county.                                                  |
| 2. Kind or description of the manufactory?                                                                                            | 2. Tannery.                                                                                  |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Four hundred dollars.                                                                     |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Two hundred dollars per annum.                                                            |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Fifty per cent.                                                                           |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Fifty hides of the best quality; 25 of sole at \$4 per hide, and 25 of upper at \$3 each. |

DOCUMENT 14.—No. 208—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. One man at \$12 per month.                     |
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. Eight hours per day, and 6 months in the year. |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. At the manufactory.                            |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                 | 13. None imported to this place.                   |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the immediate vicinity of the tannery.      |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. None exported.                                 |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Cash.                                          |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Same as above.                                 |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. None.                                          |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 19. Fifty per cent. on the capital.                |
| 20. Amount of capital?                                                                                                                     | 20. Six hundred dollars.                           |
| 21. Average rate of wages?                                                                                                                 | 21. Twelve dollars per month.                      |

Yours, respectfully,

ROBERT POTTER.

## DOCUMENT 14.—No. 207.

*Tannery, Armstrong County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Pennsylvania, Armstrong county.                                                                     |
| 2. Kind or description of the manufactory?                                                                                            | 2. Tannery.                                                                                                     |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Four hundred dollars.                                                                                        |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Five hundred dollars.                                                                                        |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Fifty per cent.                                                                                              |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. One hundred hides, 50 of sole, value of \$200; and 50 of upper of the value of \$275; all of a good quality. |

## DOCUMENT 14.—No. 207—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. Five hundred dollars.                       |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. 2 men at \$12 per month.                   |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. 8 hours per day, and 9 months of the year. |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. At the manufactory.                        |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In this county.                            |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. None.                                      |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Cash.                                      |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Are the same as above.                     |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. None.                                      |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 19. Three hundred dollars.                     |
| 20. Amount of capital?                                                                                                                     | 20. Nine hundred dollars.                      |

Yours, respectfully,

SAMUEL CRAIG

## DOCUMENT 14.—No. 208.

*Tannery, Armstrong County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Pennsylvania, Armstrong county.                                                        |
| 2. Kind or description of the manufactory?                                                                                            | 2. Tannery.                                                                                        |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Six hundred dollars.                                                                            |
| 4. Average amount in materials and in cash for the purchase of materials, and payment of wages?                                       | 4. Three hundred dollars.                                                                          |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Thirty per cent.                                                                                |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. 40 hides of a good quality, 20 hides of sole at \$3 each, and 20 hides of upper at \$2 50 each. |

## DOCUMENT 14.—No. 208—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. 1 man at \$12 per month.                      |
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. Five hours per day, and 8 months in the year. |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. At the manufactory.                           |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In this county.                               |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. None.                                         |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Cash.                                         |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Same as above.                                |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. None.                                         |
| 20. Amount of capital?                                                                                                                     | 20. Nine hundred dollars.                         |

Yours, respectfully,

JOSEPH A. BARTON.

## DOCUMENT 14.—No. 209.

*Tannery, Armstrong County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Pennsylvania, Armstrong co.                                                               |
| 2. Kind or description of the manufactory?                                                                                            | 2. Tannery.                                                                                           |
| 3. Capital invested in ground and buildings?                                                                                          | 3. One thousand dollars.                                                                              |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. One thousand dollars.                                                                              |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Fifty per cent.                                                                                    |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Two hundred and seventy-five hides, 162 of sole, at \$8 each, and 163 hides of upper, at \$5 each. |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. Two men at \$125 per year each.                                                                   |
| 11. How many hours a day employed, and what portion of the year?                                                                      | 11. Twelve hours per day, and 9 months per year.                                                      |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. Market at the manufactory.                                                                        |

## DOCUMENT 14.—No. 209—Continued.

| QUESTIONS.                                                                                                                 | ANSWERS.                   |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------|
| 14. Where are the manufactures consumed?                                                                                   | 14. In this county.        |
| 15. Whether any of the manufactures are exported to foreign countries? If so, where?                                       | 15. None.                  |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what? | 16. Cash.                  |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                       | 17. The same as above.     |
| 19. What has been the rate of your profits, annually, for the last three years?                                            | 19. Thirty-three per cent. |
| 20. Amount of capital?                                                                                                     | 20. Two thousand dollars.  |

Yours, respectfully,  
JOHN SHELDR

## DOCUMENT 14.—No. 210.

*Tannery, Armstrong County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Pennsylvania, Armstrong county.                                                  |
| 2. Kind or description of the manufactory?                                                                                            | 2. Tannery.                                                                                  |
| 3. Capital invested in ground and buildings?                                                                                          | 3. \$2,000.                                                                                  |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. \$2,000.                                                                                  |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Thirty-three per cent.                                                                    |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. 500 hides; 250 of sole, best quality, at \$7; 250 of upper, best quality, at \$4 50 each. |
| 10. Number of men, women and children employed, and average wages of each class?                                                      | 10. 4 men at \$12.                                                                           |
| 11. How many hours a day employed; and what portion of the year?                                                                      | 11. 12 hours per day, and 12 months per year.                                                |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. Market at the manufactory.                                                               |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?            | 13. None imported.                                                                           |
| 14. Where are the manufactures consumed?                                                                                              | 14. In this county.                                                                          |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 15. None exported.                                                                           |

## DOCUMENT 14.—No. 210—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.               |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Cash.              |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. The same as above. |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. None.              |
| 19. What has been the rate of your profits annually for the last three years?                                                              | 19. 33 per cent.       |
| 20. Amount of capital?                                                                                                                     | 20. \$6,000.           |
| 21. Average rate of wages?                                                                                                                 | 21. \$12.              |

Yours, &amp;c.,

A. ARNOLD &amp; Co.

## DOCUMENT 14.—No. 211.

*James Scott, Tunner and Currier, Beaver County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Beaver county, State of Pennsylvania.                |
| 2. Kind or description of the manufactory?                                                                                            | 2. Tanning and currying.                                |
| 3. Capital invested in ground and buildings?                                                                                          | 3. One thousand dollars.                                |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. One thousand dollars.                                |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Twelve and a half per cent.                          |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                               | 6. Decrease; because of home competition.               |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Not known; the year 1831 about 1,400 dollars' worth. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. Hides, bark, and oil, (home produce,) about \$700.   |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. Two men.                                            |
| 11. How many hours a day employed, and what portion of the year?                                                                      | 11. From sunrise to sunset, throughout the year.        |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. Sold in Beaver and Alleghany counties.              |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?            | 13. They do not.                                        |

## DOCUMENT 14.—No. 211—Continued.

| QUESTIONS.                                                                                                                 | ANSWERS.                                                                       |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 14. Where are the manufactures consumed?                                                                                   | 14. Supposed mostly to be consumed where sold.                                 |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                  | 15. None exported.                                                             |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what? | 16. Quarter cash, the balance for credit and trade.                            |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                       | 17. Sole leather averages 27 cts. per lb. upper do. from 24 to \$30 per dozen. |
| 19. What has been the rate of your profits, annually, for the last three years?                                            | 19. Perhaps about 12½ per cent.                                                |
| 21. Average rate of wages?                                                                                                 | 21. Workmen about \$12 per month.                                              |

JAMES SCOTT.

## DOCUMENT 14.—No. 212.

*M. T. Stokes, Turner and Currier, Beaver County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Beaver county, State of Pennsylvania.                   |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Tanning and currying.                                   |
| 3. Capital invested in ground and buildings?                                                                                          | 3. About 1,300 dollars.                                    |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. About 500 dollars.                                      |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Nearly 12 per centum.                                   |
| 6. Cause of the increase (or decrease, as the case may be,) of profit?                                                                | 6. Decreasing because of the low price of foreign leather. |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. About \$600 worth annually.                             |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. Hides and bark worth \$230, oil \$30.                   |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. Two men, at \$12 per month.                            |
| 11. How many hours a day employed, and what portion of the year?                                                                      | 11. Ten hours, throughout the year.                        |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. Sold at home.                                          |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?            | 13. They do not.                                           |

## DOCUMENT 14.—No. 212—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 14. Where are the manufactures consumed?                                                                                                   | 14. Principally in this county.                                                              |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. None exported.                                                                           |
| 16. Whether the manufacture is sold by the manufacturer for cash? and, if on credit, at what credit? if bartered, for what?                | 16. About one-fourth cash; the rest credit and trade.                                        |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Average 29 cts. per lb. for sole leather, and upper leather averages 27 cents per pound. |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. Nearly a prohibitory duty.                                                               |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 19. About 15 per cent.                                                                       |
| 20. Amount of capital?                                                                                                                     | 20. Five hundred dollars.                                                                    |
| 21. Average rate of wages?                                                                                                                 | 21. Men, \$13 per month and boarded.                                                         |

## DOCUMENT 14.—No. 213.

*Tanner and Currier, Sharon, Beaver County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                           |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Beaver county, Pennsylvania.                    |
| 2. Kind or description of the manufactory?                                                                                            | 2. Tanning and currying.                           |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Two thousand dollars.                           |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Twenty-five per cent.                           |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                               | 6. Profits decreasing; home competition the cause. |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Supposed about \$1500 worth per annum.          |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. About \$700 worth raw materials.                |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. Three men.                                     |
| 11. How many hours a day employed, and what portion of the year?                                                                      | 11. Twelve throughout the year.                    |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. Market at home.                                |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?            | 13. They do not.                                   |
| 14. Where are the manufactures consumed?                                                                                              | 14. Mostly in this county.                         |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 16. A part cash; the rest barter.                  |



## DOCUMENT 14.—No. 213—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                    |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. A slight duty.          |
| 19. What has been the rate of your profits annually for the last three years?                                                              | 19. About 25 per cent.      |
| 20. Amount of capital?                                                                                                                     | 20. Two thousand dollars.   |
| 21. Average rate of wages?                                                                                                                 | 21. Nine dollars per month. |

JOSEPH MOORHEAD.

## DOCUMENT 14.—No. 214.

*Robert Adams's Tannery, Greene County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Pennsylvania, Greene county.                                                                                      |
| 2. Kind or description of the manufactory?                                                                                            | 2. Tannery.                                                                                                          |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Three thousand dollars.                                                                                           |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Two thousand dollars per year.                                                                                    |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Six per cent.                                                                                                     |
| 6. Cause of the increase (or decrease, as the case may be) of profit?                                                                 | 6. Profit decreased in consequence of leather brought over the mountains from western and eastern markets.           |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Three thousand dollars.                                                                                           |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. Used yearly \$500 of Spanish hides, \$1000 country hides sorted.                                                  |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. Five hands, two of which are boys.                                                                               |
| 11. How many hours a day employed; and what portion of the year?                                                                      | 11. Ten hours each day the year round.                                                                               |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. Market at the manufactory.                                                                                       |
| 14. Where are the manufactures consumed?                                                                                              | 14. Consumed in the neighborhood.                                                                                    |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 16. Partly cash and in barter for hides.                                                                             |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                  | 17. Sole leather 30 years ago at 37 1/2 cents per lb. and other leather in proportion, now sells at 28 cents per lb. |
| 19. What has been the rate of your profits annually for the last three years?                                                         | 19. About six per cent.                                                                                              |
| 20. Amount of capital?                                                                                                                | 20. Three thousand dollars.                                                                                          |
| 21. Average rate of wages?                                                                                                            | 21. Sixteen dollars per month, each hand.                                                                            |

DOCUMENT 14.—No. 215.

*Wm. McAllister's Tannery, Greene County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Pennsylvania, Greene county.                                                                                                 |
| 2. Kind or description of the manufactory?                                                                                            | 2. Tannery.                                                                                                                     |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Three thousand dollars.                                                                                                      |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Two thousand dollars per year.                                                                                               |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Six per cent. on capital.                                                                                                    |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                               | 6. Property decreased in consequence of leather brought from the northern or eastern market.                                    |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Equal amount of sole, upper and calf skins, to the amount of two thousand dollars.                                           |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. Used \$500 worth Spanish hides, \$1,000 country sorted.                                                                      |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. Four hands, one of which is a boy.                                                                                          |
| 11. How many hours a day employed, and what portion of the year?                                                                      | 11. Ten hours each day the year round.                                                                                          |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. Market at the manufactory.                                                                                                  |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?            | • 13. Articles reduced 35 per cent. in consequence of the same being imported.                                                  |
| 14. Where are the manufactures consumed?                                                                                              | 14. At home.                                                                                                                    |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 16. Part cash, and part in trade of all kinds.                                                                                  |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                  | 17. The article of sole leather has decreased in the last 30 years, from 44 cents to 28 cents; on other articles in proportion. |
| 19. What has been the rate of your profits, annually, for the last three years?                                                       | 19. Six per cent.                                                                                                               |
| 20. Amount of capital?                                                                                                                | 20. Two thousand dollars.                                                                                                       |
| 21. Average rate of wages?                                                                                                            | 21. \$16 per month for good hands.                                                                                              |

DOCUMENT 14.—No. 216.

*Alexander Lindsay's Tannery, Greene County, West Pennsylvania.*

| QUESTIONS.                                                | ANSWERS.                        |
|-----------------------------------------------------------|---------------------------------|
| 1. State and county in which the manufactory is situated? | 1. Greene county, Pennsylvania. |
| 2. Kind or description of the manufactory?                | 2. Tannery.                     |

## DOCUMENT 14.—No. 216—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 3. Capital invested in ground and buildings?                                                                                               | 3. Two thousand dollars.                                                                                            |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. One thousand dollars per year for materials, and one hundred and twenty dollars for hands.                       |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. Six per cent.                                                                                                    |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                    | 6. Profit decreased from competition, leather from other parts being sold here.                                     |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. Two thousand dollars' worth; equal amount of sole, upper, and calf skin.                                         |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. One thousand dollars' worth of country hides.                                                                    |
| 9. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                             | 9. Do not know.                                                                                                     |
| 10. Number of men, women and children employed, and average wages of each class?                                                           | 10. Two men, from 14 to \$16 per month, each.                                                                       |
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. Ten hours each day, the year round.                                                                             |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. Sold at the manufactory.                                                                                        |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                 | 13. Some foreign sole leather finds its way here, but not much.                                                     |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the neighborhood.                                                                                            |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. None.                                                                                                           |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Part cash, part hides and produce.                                                                              |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Sole leather has, in the last thirty years, decreased from 44 to 28 cents per lb.; other leather in proportion. |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. Cannot tell.                                                                                                    |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 19. Six per cent.                                                                                                   |
| 20. Amount of capital?                                                                                                                     | 20. One thousand dollars.                                                                                           |
| 21. Average rate of wages?                                                                                                                 | 21. Sixteen dollars per month.                                                                                      |

## DOCUMENT 14.—No. 217.

*John Cotterill's Tannery, Greene County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Greene county, Pennsylvania.                                                         |
| 2. Kind or description of the manufactory?                                                                                            | 2. Tannery.                                                                             |
| 3. Capital invested in ground and buildings.                                                                                          | 3. Three thousand dollars.                                                              |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. One thousand dollars.                                                                |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Five hundred dollars.                                                                |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                               | 6. No loss on the profits.                                                              |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. About two thousand dollars.                                                          |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. No foreign materials.                                                                |
| 9. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                        | 9. None imported.                                                                       |
| 10. Number of men, women and children employed, and average wages of each class?                                                      | 10. Two hundred.                                                                        |
| 11. How many hours a day employed, and what portion of the year?                                                                      | 11. Twelve hours, or all the day.                                                       |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. Sold at home.                                                                       |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?            | 13. No competition.                                                                     |
| 14. Where are the manufactures consumed?                                                                                              | 14. Pennsylvania, Greene county.                                                        |
| 15. Whether any of the manufactures are exported to foreign countries? And if so, where?                                              | 15. No where.                                                                           |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 16. For cash, hides and bark, and trade.                                                |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                  | 17. At 28 cents per lb. for sole leather, and \$2 50 per side; calf skins \$2 per skin. |
| 18. What has been the rate of your profits, annually, for the last three years?                                                       | 18. Fifty per cent.                                                                     |
| 19. Amount of capital?                                                                                                                | 19. Twelve hundred dollars.                                                             |
| 20. Average rate of wages?                                                                                                            | 20. Ten dollars per month and found in board.                                           |

## DOCUMENT 14.—No. 218.

*Abstract Return of Articles Manufactured in Somerset County, West Pennsylvania.*

|                                                                                                                                                         |                                  |             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------|
| Quantity of cloth manufactured at the fulling mills                                                                                                     | 25,908 yards at \$1 per yard     | \$ 25,908   |
| Quantity of flannel and blankets                                                                                                                        | do do 20,000 yards at 75 cts. do | 15,000      |
|                                                                                                                                                         | Aggregate value                  | 40,908      |
| Quantity of flannel manufactured, and "not taken to the fulling mills," as supposed by the fullers, 8 000 yards, at 50 cents per yard                   |                                  | 4,000       |
| Quantity of saddles; 265 saddles at \$ 12, 800 saddles at \$ 10                                                                                         |                                  | \$ 3,980 00 |
| Quantity of hats, 5,400 wool, roram, and caster                                                                                                         | Total value,                     | 11,442 00   |
| Quantity of shoes 2,640 pairs                                                                                                                           | Total value,                     | 4,585 00    |
| Quantity of leather                                                                                                                                     | Total value,                     | 24,205 00   |
| Quantity of paper; 150 reams of wrapping paper, \$ 1.50 per ream                                                                                        |                                  | 225 00      |
| Five hands 1½ months at \$ 18 per month                                                                                                                 |                                  | 135 00      |
| Paper mill built in 1830; cost of erecting paper mill                                                                                                   |                                  | 3,000 00    |
| Shade forge, for six months; quantity of iron manufactured, 30 tons at \$ 110 per ton, at Pittsburgh, cash sale                                         |                                  | 3,300 00    |
| Six hands' wages \$ 13.50 per ton                                                                                                                       |                                  | 405 00      |
| Mary Ann forge, for six months; quantity of iron, six tons at \$ 112 per ton, at Pittsburgh, cash sale                                                  |                                  | 672 00      |
| Three tons of blooms at \$ 95 per ton at Pittsburgh, cash sale                                                                                          |                                  | 285 00      |
| Three hands' wages \$ 13 per month each, for six months                                                                                                 |                                  | 468 00      |
| One collier two months at \$ 26 per month                                                                                                               |                                  | 52 00       |
| Jackson furnace, three months' blast; quantity, 60 tons pig metal \$ 36 per ton at Pittsburgh, cash sale                                                |                                  | 2,160 00    |
| Ten horses and four oxen employed in hauling ore, wood, and coal.                                                                                       |                                  |             |
| Twenty men's wages at \$ 16.50 per week                                                                                                                 |                                  | 214 50      |
| Quantity of iron consumed in Somerset county by the blacksmiths, all of which is brought from the adjoining counties, 75 tons                           | Total value                      | 8,946       |
| Quantity of sugar manufactured in Somerset county, Pennsylvania, may safely be estimated at 225,000 pounds, made out of the maple sugar tree, annually. |                                  |             |

WILLIAM PHILSON, *Agent*.

SOMERSET, PA. April 27, 1832.

## DOCUMENT 14.—No. 219.

*Tannery, Washington County, West Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.                            |
|-------------------------------------------------------------------------------------------------|-------------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Washington county, Pennsylvania. |
| 2. Kind or description of the manufactory?                                                      | 2. A tannery.                       |
| 3. Capital invested in ground and buildings?                                                    | 3. \$3,000.                         |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 4. \$4,000.                         |
| 5. Annual rate of profit on capital invested?                                                   | 5. Two hundred per thousand.        |
| 19. What has been the rate of your profits, annually, for the last three years?                 | 19. Three hundred per annum.        |
| 20. Amount of capital?                                                                          | 20. \$2,000.                        |
| 21. Average rate of wages?                                                                      | 21. \$12 per month for each hand.   |

DAVID WOLF.

## DOCUMENT 14.—No. 220.

*Tannery, Washington County, West Pennsylvania.*

## QUESTIONS.

1. State and county in which the manufactory is situated?
2. Kind or description of the manufactory?
3. Capital invested in ground and buildings?
4. Average amount in materials, and in cash for the purchase of materials and payment of wages?
5. Annual rate of profit on the capital invested?
10. Number of men, women, and children employed, and average wages of each class?
11. How many hours a day employed, and what portion of the year?
12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?
14. Where are the manufactures consumed?
15. Whether any of the manufactures are exported to foreign countries? and if so, where?
16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, what credit? if bartered, for what?
17. The prices at which the manufactures have been sold by the manufacturer since the establishment?

## ANSWERS.

1. Washington county, Pennsylvania.
2. Tannery.
3. \$500.
4. \$600.
5. 25 per cent.
10. 2 men at 75 cents per day.
11. 8 hours the year round.
12. Sold at the manufactory.
14. Washington and Greene counties.
15. None.
16. All sold for cash.
17. Sold at 28 cents per lb.

JAMES HUGHES.

## DOCUMENT 14.—No. 221.

*Tannery, Washington County, West Pennsylvania.*

## QUESTIONS.

1. State and county in which the manufactory is situated?
2. Kind or description of the manufactory?
3. Capital invested in ground and buildings?
4. Average amount in materials, and in cash for the purchase of materials, and payment of wages?
5. Annual rate of profit on the capital invested?
12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?
13. Whether foreign articles of the like kinds enter into competition with them at the place of sale, and to what extent?

## ANSWERS.

1. Williamsburg, Washington, county, Pennsylvania.
2. Tannery.
3. \$600.
4. \$600.
5. \$400.
12. At the manufactory.
13. They do not.

THOMAS WALKER.

## DOCUMENT 14.—No. 222.

*Tannery, Washington County, West Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.                            |
|-------------------------------------------------------------------------------------------------|-------------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Washington county, Pennsylvania. |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?            | 2. Leather.                         |
| 4. Capital invested in ground and buildings, and water power and in machinery?                  | 4. \$800.                           |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 5. \$1,400.                         |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory?    | 6. \$600.                           |
| 12. Number of men employed, and average wages of each?                                          | 12. 2 persons, average \$100.       |
| 25. What has been the rate of your profits, annually, for the last three years?                 | 25. \$500.                          |
| 33. Amount of capital?                                                                          | 33. \$1,200 active.                 |

JACOB SHAF.

## DOCUMENT 14.—No. 223.

*Moses Bell's Tannery, Washington County, West Pennsylvania.*

| QUESTIONS.                                                                                                                | ANSWERS.                                                                    |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                 | 1. Pennsylvania, Washington county.                                         |
| 2. Kind or description of the manufactory?                                                                                | 2. Tannery.                                                                 |
| 3. Capital invested in ground and buildings?                                                                              | 3. Capital invested, &c., \$5,000.                                          |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                           | 4. Average amount in materials \$800.                                       |
| 5. Annual rate of profit on the capital invested?                                                                         | 5. Annual rate of profit, &c., \$1,100.                                     |
| 10. Number of men, women, and children employed, and average wages of each class?                                         | 10. Employment found for 4 men, \$100 per month.                            |
| 11. How many hours a day employed, and what portion of the year?                                                          | 11. Eleven hours in the day throughout the year.                            |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                 | 12. Market at the manufactory.                                              |
| 14. Where are the manufactures consumed?                                                                                  | 14. Consumed at home.                                                       |
| 16. Whether the manufacture is sold by the manufacturer, for cash? if on a credit, at what credit? if bartered, for what? | 16. Sold for cash, except what is bartered for hides, oil, and bark.        |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                      | 17. Upper at \$30 per dozen; mid \$25 per dozen; calf skins \$20 per dozen. |

## DOCUMENT 14.—No. 223—Continued.

| QUESTIONS.                                                               | ANSWERS.                                                     |
|--------------------------------------------------------------------------|--------------------------------------------------------------|
| What has been the rate of your profits, daily, for the last three years? | 19. Last year \$1,100, the two preceding years \$1,000 each. |
| Amount of capital?                                                       | Amount of capital \$2,100.                                   |
| Average rate of wages?                                                   | 21. Average rate of wages 10 dollars per month.              |

MOSES BELL.

## DOCUMENT 14.—No. 224.

*Summary of the Tanneries in Westmoreland County, West Pennsylvania.*

| QUESTIONS.                                                                                                              | ANSWERS.                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| State and county in which the manufactory is situated?                                                                  | 1. In Westmoreland county, and State of Pennsylvania.                                                                                                                                        |
| Kind or description of the manufactory?                                                                                 | 2. Tanneries.                                                                                                                                                                                |
| Capital invested in ground and buildings?                                                                               | 3. \$3,670 dollars.                                                                                                                                                                          |
| Average amount in materials, and in cash he purchase of materials and payment of wages?                                 | 4. \$34,076 per annum.                                                                                                                                                                       |
| Annual rate of profit on the capital invested?                                                                          | 5. Annual profit \$15,525.                                                                                                                                                                   |
| Causes of the increase (or decrease, as case may be) of profit?                                                         | 6. A decrease arising from an overstocked market.                                                                                                                                            |
| Amount of articles annually manufactured since the establishment of the manufactory?                                    | 7. \$46,405. All kinds of leather, quality, and value, given in No. 17.                                                                                                                      |
| Description, quality, and value of each?                                                                                |                                                                                                                                                                                              |
| Quantity and value of different kinds of materials used; distinguishing between foreign products and domestic products? | 8. The bark used in the tanneries of this county will amount to \$3,300 per annum, and averages \$3 per cord. The hides will amount to \$17,700 per annum, and will average \$2 75 per hide. |
| 0. Number of men, women, and children employed, and average wages of each class?                                        | 10. From 60 to 70 men, and from 20 to 30 boys: the latter receive no wages.                                                                                                                  |
| 1. How many hours a day employed, and a portion of the year?                                                            | 11. Average about 9 hours per day, all the year.                                                                                                                                             |
| 2. Whether the manufactures find a market at the manufactory? If not, how far they sent to a market?                    | 12. Generally at the manufactory, or in the distance of 50 or 60 miles.                                                                                                                      |
| 4. Where are the manufactures consumed?                                                                                 | 14. Principally in the neighborhood.                                                                                                                                                         |
| 5. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                | 15. Unable to give any answer.                                                                                                                                                               |
| 6. Whether the manufacture is sold by manufacturer for cash? and if on credit, what credit? if bartered, for what?      | 16. Generally on credit. Credit given is generally one year. Barter for hides, bark, and produce.                                                                                            |
| 7. The prices at which the manufactures have been sold by the manufacturer since establishment?                         | 17. They will average as follows: sole leather 31½ cents per lb.; upper \$2 50 per side; calf skins \$18 per dozen; harness 28 cents per lb.; and sheep \$4 per dozen.                       |
| 19. What has been the rate of your profits annually for the last three years?                                           | 19. Fifty per cent. per annum.                                                                                                                                                               |
| 21. Amount of capital?                                                                                                  | 20. 60,935 dollars.                                                                                                                                                                          |



## DOCUMENT 14.—No. 225.

*Tannery, Butler County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Pennsylvania, Butler county.                                     |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Leather.                                                         |
| 3. Capital invested in ground and buildings?                                                                                               | 3. Two thousand dollars.                                            |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. Five hundred dollars.                                            |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. Five hundred dollars.                                            |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. Two men at twenty dollars per month.                            |
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. Twelve hours a day, spring, summer, and fall.                   |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. At the manufactory.                                             |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 13. Yes, and three cents per pound of sole leather.                 |
| 14. Where are the manufactures consumed?                                                                                                   | 14. At Butler, Pennsylvania.                                        |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. No.                                                             |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Some for cash, some on credit, and some bartered for hides, &c. |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Sole leather from 24 to 24½ cents per pound.                    |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. Twelve and a half per cent.                                     |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 19. Three hundred dollars.                                          |
| 20. Amount of capital?                                                                                                                     | 20. Fourteen hundred dollars.                                       |

WILLIAM McQUESTEN

## DOCUMENT 14.—No. 225.—Part 2.

*Tannery, Butler County, West Pennsylvania.*

| QUESTIONS.                                                | ANSWERS.                        |
|-----------------------------------------------------------|---------------------------------|
| 1. State and county in which the manufactory is situated? | 1. Pennsylvania, Butler county. |
| 2. Kind or description of the manufactory?                | 2. Leather.                     |
| 3. Capital invested in ground and buildings?              | 3. Five hundred dollars.        |

## DOCUMENT 14.—No. 225—Continued.

| QUESTIONS.                                                                                                                 | ANSWERS.                                                                  |
|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                            | 4. Five hundred dollars.                                                  |
| 5. Annual rate of profit on capital invested?                                                                              | 5. Five hundred dollars.                                                  |
| 10. Number of men, women, and children, employed, and average wages of each class?                                         | 10. Three men at ten dollars per month annually.                          |
| 11. How many hours a day employed, and what portion of the year?                                                           | 11. Twelve hours a day all the year.                                      |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                  | 12. At the manufactory.                                                   |
| 14. Where are the manufactures consumed?                                                                                   | 14. Butler county, Pennsylvania.                                          |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what? | 16. Some for cash, some on credit, and some bartered for hides, &c.       |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                       | 17. Sole leather at 33 cents per pound; upper 28 to 30 dollars per dozen. |
| 19. What has been the rate of your profits annually for the last three years?                                              | 19. Five hundred dollars.                                                 |
| 20. Amount of capital?                                                                                                     | 20. One thousand dollars.                                                 |
| 21. Average rate of wages?                                                                                                 | 21. Ten dollars annually.                                                 |

FULLERTON PARKER.

## DOCUMENT 14.—No. 226.

*John Marshall's Tannery, in Butler County, West Pennsylvania.*

| QUESTIONS.                                                                                                | ANSWERS.                                                     |
|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                 | 1. Pennsylvania, Butler county.                              |
| 2. Kind or description of the manufactory?                                                                | 2. Leather.                                                  |
| 3. Capital invested in ground and buildings?                                                              | 3. Five hundred dollars.                                     |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?           | 4. Two thousand dollars.                                     |
| 5. Annual rate of profit on the capital invested?                                                         | 5. Five hundred dollars.                                     |
| 10. Number of men, women and children employed, and average wages of each class?                          | 10. Four men, \$9 per month annually.                        |
| 11. How many hours a day employed, and what portion of the year?                                          | 11. Twelve hours a day all the year.                         |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market? | 12. Some at the manufactory; some sent from 20 to 300 miles. |
| 14. Where are the manufactures consumed?                                                                  | 14. Butler, Pa., Pittsburgh, Pa., Philadelphia, Pa.          |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                  | 15. No.                                                      |

## DOCUMENT 14.—No. 226—Continued.

| QUESTIONS.                                                                                                                 | ANSWERS.                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what? | 16. Some cash, some on credit, some bartered for hides, &c.                                                                        |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                       | 17. Sole leather from 25 to 28 cents per pound; upper from 24 to 34 dollars per dozen; calf-skins from 24 to 30 dollars per dozen. |
| 19. What has been the rate of your profits, annually, for the last three years?                                            | 19. Five hundred dollars.                                                                                                          |
| 20. Amount of capital?                                                                                                     | 20. Two thousand dollars.                                                                                                          |
| 21. Average rate of wages?                                                                                                 | 21. Nine dollars per month.                                                                                                        |

## DOCUMENT 14.—No. 227.

*A. H. Zeigler's Tannery, Butler County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Pennsylvania, Butler county.                                                                                                    |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Leather.                                                                                                                        |
| 3. Capital invested in ground and buildings?                                                                                               | 3. Three thousand dollars.                                                                                                         |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. Twelve hundred and fifty dollars.                                                                                               |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. Five hundred dollars.                                                                                                           |
| 10. Number of men, women, and children, employed, and average wages of each class?                                                         | 10. Six men, \$ 15 per month annually.                                                                                             |
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. Twelve hours a day, all the year.                                                                                              |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. At the manufactory, and part sent abroad.                                                                                      |
| 14. Where are the manufactures consumed?                                                                                                   | 14. Butler county, Pa., Pittsburgh, Pa., and Beaver, Pa.                                                                           |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Some for cash, some credit, and some bartered for hides.                                                                       |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Sole leather from 20 to 33 cents per pound; upper from 20 to 30 dollars per dozen; calf-skins from 18 to 28 dollars per dozen. |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. Seven per cent.                                                                                                                |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 19. Six hundred dollars.                                                                                                           |
| 20. Amount of capital?                                                                                                                     | 20. Twelve hundred dollars.                                                                                                        |
| 21. Average rate of wages?                                                                                                                 | 21. Fifteen dollars per month.                                                                                                     |

## DOCUMENT 14.—No. 327.—[PART 2.]

*William McJunkin's Tannery, Butler County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Pennsylvania, Butler county.                                                  |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Leather.                                                                      |
| 3. Capital invested in ground and buildings?                                                                                               | 3. One thousand dollars.                                                         |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. Fifteen hundred dollars.                                                      |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. Six hundred dollars.                                                          |
| 10. Number of men, women and children employed, and average wages of each class?                                                           | 10. Three men, eight dollars per month.                                          |
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. Twelve hours a day all the year.                                             |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. At the manufactory.                                                          |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 13. Yes; six cents per pound.                                                    |
| 14. Where are the manufactures consumed?                                                                                                   | 14. At Butler, Pennsylvania.                                                     |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Some for cash, some on credit, and bartered for hides, &c.                   |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Sole leather from 28 to 31 cents per pound; upper from 24 to \$36 per dozen. |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. Eighteen per cent.                                                           |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 19. Six hundred dollars.                                                         |
| 20. Amount of capital?                                                                                                                     | 20. Fifteen hundred dollars.                                                     |
| 21. Average rate of wages?                                                                                                                 | 21. Nine dollars per month annually.                                             |

## DOCUMENT 14.—No. 228.

*John Reed's Tannery, Butler County, Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.                        |
|-------------------------------------------------------------------------------------------------|---------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Pennsylvania, Butler county. |
| 2. Kind or description of the manufactory?                                                      | 2. Leather.                     |
| 3. Capital invested in ground and buildings?                                                    | 3. Eight hundred dollars.       |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 4. One thousand dollars.        |
| 5. Annual rate of profit on the capital invested?                                               | 5. Five hundred dollars.        |

## DOCUMENT 14.—No. 228—Continued.

| QUESTIONS.                                                                                                                 | ANSWERS.                                                                               |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 10. Number of men, women and children employed, and average wages of each class?                                           | 10. Three hands; ten dollars per month annually.                                       |
| 11. How many hours a day employed, and what portion of the year?                                                           | 11. Twelve hours a day all the year.                                                   |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                  | 12. At the manufactory.                                                                |
| 14. Where are the manufactures consumed?                                                                                   | 14. Butler county, Pennsylvania.                                                       |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what? | 16. Some for cash, some at ninety days credit, and some bartered for hides, &c.        |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                       | 17. Sole leather from 25 to 31 cents per pound, upper from 24 to 30 dollars per dozen. |
| 19. What has been the rate of your profits annually for the last three years?                                              | 19. Five hundred dollars.                                                              |
| 20. Amount of capital?                                                                                                     | 20. One thousand dollars.                                                              |
| 21. Average rate of wages?                                                                                                 | 21. Ten dollars per month annually.                                                    |

## PART 2.

*Robert Reed's Tannery, Butler County, West Pennsylvania.*

| QUESTIONS.                                                                                                                 | ANSWERS.                                                                                |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                  | 1. Pennsylvania, Butler county.                                                         |
| 2. Kind or description of the manufactory?                                                                                 | 2. Leather.                                                                             |
| 3. Capital invested in ground and buildings?                                                                               | 3. One thousand dollars.                                                                |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                            | 4. Five hundred dollars.                                                                |
| 5. Annual rate of profit on the capital invested?                                                                          | 5. Five hundred dollars.                                                                |
| 10. Number of men, women and children employed, and average wages of each class?                                           | 10. Two men, eight dollars per month.                                                   |
| 11. How many hours a day employed, and what portion of the year?                                                           | 11. Twelve hours a day, nine months annually.                                           |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                  | 12. At the manufactory.                                                                 |
| 14. Where are the manufactures consumed?                                                                                   | 14. Butler county, Pennsylvania.                                                        |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what? | 16. All bartered.                                                                       |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                       | 17. Sole leather from 25 to 31 cents per pound; upper, from 24 to 31 dollars per dozen. |
| 19. What has been the rate of your profits annually for the last three years?                                              | 19. Five hundred dollars annually.                                                      |
| 20. Amount of capital?                                                                                                     | 20. One thousand dollars.                                                               |
| 21. Average rate of wages?                                                                                                 | 21. Eight dollars per month.                                                            |

## DOCUMENT 14.—No. 229.

*Hugh McKee, Esq.'s Tannery, Butler County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Pennsylvania, Butler county.                                                      |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Leather.                                                                          |
| 3. Capital invested in ground and buildings?                                                                                               | 3. One thousand dollars.                                                             |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. One thousand dollars.                                                             |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. Five hundred dollars.                                                             |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. Four men eight dollars per month, annually.                                      |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. Twelve hours a day, all the year.                                                |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. At the manufactory.                                                              |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 13. Yes; and two cents per lb. on sole leather.                                      |
| 14. Where are the manufactures consumed?                                                                                                   | 14. At Butler, Pennsylvania.                                                         |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. No.                                                                              |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Some for cash; some on credit; some bartered for hides, &c.                      |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Sole leather from 28 to 31 cents per lb.; upper from 24 to 33 dollars per dozen. |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. Seven per cent.                                                                  |
| 19. What has been the rate of your profits annually for the last three years?                                                              | 19. Five hundred dollars.                                                            |
| 20. Amount of capital?                                                                                                                     | 20. One thousand dollars.                                                            |
| 21. Average rate of wages?                                                                                                                 | 21. Nine dollars per month.                                                          |

## DOCUMENT 14.—No. 229.—Part 2.

*Stephen Arnold's Tannery, Butler County, West Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.                        |
|-------------------------------------------------------------------------------------------------|---------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Pennsylvania, Butler county. |
| 2. Kind or description of the manufactory?                                                      | 2. Leather.                     |
| 3. Capital invested in ground and buildings?                                                    | 3. One hundred dollars.         |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 4. Two hundred dollars.         |

## DOCUMENT 14.—No. 229.—Part 2.—Continued.

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Fifty dollars.                                                                                                   |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Three hundred; sole leather 33½; upper from 30 to 36 dolla. per doz.; calf skins from 28 to 30 dolla. per dozen. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. All domestic.                                                                                                    |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. One man, ten dollars per month.                                                                                 |
| 11. How many hours a day employed? and what portion of the year?                                                                      | 11. Twelve hours a day, all the year.                                                                               |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. At the manufactory.                                                                                             |
| 14. Where are the manufactures consumed?                                                                                              | 14. Butler county, Pennsylvania.                                                                                    |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 15. No.                                                                                                             |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 16. Cash, hides, skins, bark, &c.                                                                                   |
| 19. What has been the rate of your profits annually for the last three years?                                                         | 19. Fifty dollars.                                                                                                  |
| 20. Amount of capital?                                                                                                                | 20. Two hundred dollars.                                                                                            |

## DOCUMENT 14.—No. 230.

*Henry Stratton's Leather Manufactory, Crawford County, West Pennsylvania.*

| QUESTIONS.                                                                                                                             | ANSWERS.                                  |
|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                              | 1. Crawford county, Pennsylvania.         |
| 2. Kind or description of the manufactory?                                                                                             | 2. Leather.                               |
| 3. Capital invested in ground and buildings?                                                                                           | 3. Twelve hundred dollars.                |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                        | 4. Fifteen hundred dollars.               |
| 5. Annual rate of profit on the capital invested?                                                                                      | 5. Twenty-five per cent.                  |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value, of each kind? | 7. Two thousand dollars.                  |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?         | 8. Three hundred hides, all domestic.     |
| 10. Number of men, women, and children employed, and average wages of each class?                                                      | 10. Two men and 1 boy; man \$16, boy \$5. |
| 11. How many hours a day employed; and what portion of the year?                                                                       | 11. Twelve hours, ten months.             |

## DOCUMENT 14.—No. 230—Continued.

| QUESTIONS.                                                                                                                  | ANSWERS.                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                   | 12. In the vicinity.                                                               |
| 14. Where are the manufactures consumed?                                                                                    | 14. In the vicinity.                                                               |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                   | 15. None exported.                                                                 |
| 16. Whether the manufacture is sold by the manufacturer for cash? and, if on credit, at what credit? if bartered, for what? | 16. Part on credit of six months, part cash, and part bartered for hides and bark. |
| 17. The prices at which the manufacture has been sold by the manufacturer since the establishment?                          | 17. Sole leather at 28 cents per lb.; upper at \$2 50 per side; calf \$1 50.       |
| 21. Average rate of wages?                                                                                                  | 21. Sixteen dollars per month.                                                     |

## DOCUMENT 14.—No. 231.

*Leather Manufactory, Crawford County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Crawford county, Pennsylvania.                                        |
| 2. Kind or description of the manufactory?                                                                                            | 2. Leather manufactory.                                                  |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Five hundred dollars.                                                 |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Five hundred dollars.                                                 |
| 5. Annual rate of profit on capital invested?                                                                                         | 5. 25 per cent.                                                          |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. One thousand dollars.                                                 |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. 130 hides.                                                            |
| 10. Number of men, women and children employed, and average wages of each class?                                                      | 10. 2 men.                                                               |
| 11. How many hours a day employed, and what portion of the year?                                                                      | 11. 12 hours for 10 months.                                              |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. They do.                                                             |
| 14. Where are the manufactures consumed?                                                                                              | 14. In the vicinity.                                                     |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 16. For cash in part, traded in part for hides, and credited six months. |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                  | 17. Sole 28 cents per pound, upper per side, \$2 50, calf \$1 50.        |
| 19. What has been the rate of your profits annually for the last three years?                                                         | 19. Twenty-five per cent.                                                |
| 21. Average rate of wages?                                                                                                            | 21. \$16 per month.                                                      |

ROBERT WILLIAMSON.



## DOCUMENT 14.—No. 232.

*Leather Manufactory, Crawford County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Crawford county, Pennsylvania.                                                         |
| 2. Kind or description of the manufactory?                                                                                            | 2. Leather manufactory.                                                                   |
| 3. Capital invested in ground and buildings?                                                                                          | 3. One thousand dollars.                                                                  |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. One thousand six hundred dollars.                                                      |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Twenty-five per cent.                                                                  |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. \$2,000; manufactured two-thirds upper leather at \$2 50, sole \$3, calf-skins \$1 50. |
| 8. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?        | 8. 300 hides, all domestic, \$3, making about 900 dollars; also 50 Spanish hides.         |
| 9. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                        | 9. South American hides at 16 cents per pound at Philadelphia.                            |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. 2 men and 1 boy; men at 16 dollars per month; boys at \$5 per month.                  |
| 11. How many hours a day employed; and what portion of the year?                                                                      | 11. 12 hours 10 months.                                                                   |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. In the vicinity.                                                                      |
| 14. Where are the manufactures consumed?                                                                                              | 14. In the vicinity.                                                                      |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 15. None exported.                                                                        |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 16. Part on credit of six months, part cash, and part bartered for hides.                 |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                  | 17. Sold both at twenty-eight cents per pound; upper \$2 50; side, calf, \$1 50.          |
| 21. Average rate of wages?                                                                                                            | 21. Sixteen dollars per month.                                                            |

WILLIAM HENRY.

## DOCUMENT 14.—No. 233.

*John Clark's Leather Manufactory, Meadville, Crawford County, West Pennsylvania.*

| QUESTIONS.                                                | ANSWERS.                          |
|-----------------------------------------------------------|-----------------------------------|
| 1. State and county in which the manufactory is situated? | 1. Crawford county, Pennsylvania. |
| 2. Kind or description of the manufactory?                | 2. Leather                        |

## DOCUMENT 14.—No. 233—Continued.

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 3. Capital invested in ground and buildings?                                                                                          | 3. \$1,200.                                                                               |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. \$1,600.                                                                               |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. 25 per cent.                                                                           |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. \$2,000 manufactured; $\frac{2}{3}$ upper, at \$2 50; sole, \$3; calf-skins at \$1 50. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. 300 hides, all domestic, at \$3; making about \$900.                                   |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. 2 men and 1 boy; men at \$16, the boy \$5 per month.                                  |
| 11. How many hours a day employed; and what portion of the year?                                                                      | 11. 12 hours; 10 months.                                                                  |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. In the vicinity.                                                                      |
| 14. Where are the manufactures consumed?                                                                                              | 14. In the vicinity.                                                                      |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 15. None exported.                                                                        |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 16. Part on credit of 6 months; part cash, and part bartered for hides and bark.          |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                  | 17. Sole leather at 28 cents per lb.; upper, \$2 50 per side; calf, \$1 50.               |
| 21. Average rate of wages?                                                                                                            | 21. \$16 per month.                                                                       |

## DOCUMENT 14.—No. 234.

*Kennedy Davis's Leather Manufactory, Meadville, Crawford County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                          |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Crawford county, Pennsylvania. |
| 2. Kind or description of the manufactory?                                                                                            | 2. Leather manufactory.           |
| 3. Capital invested in ground and buildings?                                                                                          | 3. \$2,200.                       |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. 25 per cent.                   |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. \$3,500.                       |

## DOCUMENT 14.—No. 214—Continued.

| QUESTIONS.                                                                                                | ANSWERS.                                                   |
|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| 10. Number of men, women, and children employed, and average wages of each class?                         | 10. 3 men and 3 boys.                                      |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market? | 12. 340 miles.                                             |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?      | 17. Sole leather 23 cents per lb.; upper, \$2 50 per side. |
| 21. Average rate of wages?                                                                                | 21. \$15 per month.                                        |

## DOCUMENT 14.—No. 235.

*Roderic Frazier's Leather Manufactory, Crawford County, West Pennsylvania.*

| QUESTIONS.                                                                                                                             | ANSWERS.                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                              | 1. Crawford county, Pennsylvania.                                                |
| 2. Kind or description of the manufactory?                                                                                             | 2. Leather.                                                                      |
| 3. Capital invested in ground and buildings?                                                                                           | 3. \$1,000.                                                                      |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                        | 4. \$1,500.                                                                      |
| 5. Annual rate of profit on the capital invested?                                                                                      | 5. 25 per cent.                                                                  |
| 7. Amount of articles annually manufactured, since the establishment of the manufactory? Description, quality, and value of each kind? | 7. \$2,000.                                                                      |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?         | 8. 300 hides, all domestic.                                                      |
| 10. Number of men, women, and children employed, and average wages of each class?                                                      | 10. 2 men and 1 boy; men at \$16, the boy at \$5.                                |
| 11. How many hours a day employed; and what portion of the year?                                                                       | 11. 12 hours, and 10 months.                                                     |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                              | 12. In the vicinity.                                                             |
| 14. Where are the manufactures consumed?                                                                                               | 14. In the vicinity.                                                             |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                               | 15. None exported.                                                               |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?             | 16. Part on credit of 6 months; part cash, and part bartered for hides and bark. |

## DOCUMENT 14.—No. 235—Continued.

| QUESTIONS.                                                                                           | ANSWERS.                                                                    |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment? | 17. Sole leather at 28 cents per lb.; upper, \$2 50 per side; calf, \$1 50. |
| 21. Average rate of wages?                                                                           | 21. \$16 per month.                                                         |

## DOCUMENT 14.—No. 236.

*Mr. David Bennet's Leather Manufactory, Crawford County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Crawford county, Pennsylvania.                                                |
| 2. Kind or description of the manufactory?                                                                                            | 2. Leather.                                                                      |
| 3. Capital invested in ground and buildings?                                                                                          | 3. \$1,000.                                                                      |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. \$1,500.                                                                      |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. 25 per cent.                                                                  |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. \$2,000.                                                                      |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. 300 hides; all domestic.                                                      |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. 2 men and 1 boy; men \$16, boy \$5 per month.                                |
| 11. How many hours a day employed, and what portion of the year?                                                                      | 11. 12 hours, 10 months.                                                         |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. In the vicinity.                                                             |
| 14. Where are the manufactures consumed?                                                                                              | 14. In the vicinity.                                                             |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 15. None exported.                                                               |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 16. Part on credit of 6 months, part cash, and part bartered for hides and bark. |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                  | 17. Sole leather at 28 cents per lb.; upper, \$2 50 per side; calf, \$1 50.      |
| 21. Average rate of wages?                                                                                                            | 21. \$16 per month.                                                              |

## DOCUMENT 14.—No. 237.

*J. Brown's Leather Manufactory, Crawford County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Crawford county, Pennsylvania.                                       |
| 2. Kind or description of the manufactory?                                                                                            | 2. Leather manufactory.                                                 |
| 3. Capital invested in ground and buildings?                                                                                          | 3. One thousand two hundred dollars.                                    |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. One thousand six hundred dollars.                                    |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Twenty-five per cent.                                                |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. \$2,000. Two-thirds upper, at \$2 3/4 sole, \$3; calf skin, \$1 50.  |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. 300 hides, (domestic,) cost about \$300.                             |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. Two men, one boy.                                                   |
| 11. How many hours a day employed; and what portion of the year?                                                                      | 11. 12 hours; 10 months.                                                |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. Sold in the vicinity.                                               |
| 14. Where are the manufactures consumed?                                                                                              | 14. In the vicinity.                                                    |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                             | 15. None.                                                               |
| 16. Whether the manufacture is sold by the manufacturer for cash? and, if on credit, at what credit? if bartered, for what?           | 16. Part cash and part traded for hides, part credit for six months.    |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                  | 17. Sole, 28 cents per lb.; upper, \$2 3/4 per hide; calf skin, \$1 50. |
| 21. Average rate of wages?                                                                                                            | 21. Sixteen dollars per month.                                          |

## DOCUMENT 14.—No. 238.

*O. Bradley's Leather Manufactory, Crawford County, West Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.                              |
|-------------------------------------------------------------------------------------------------|---------------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Crawford county, Pennsylvania.     |
| 2. Kind or description of the manufactory?                                                      | 2. Leather manufactory.               |
| 3. Capital invested in ground and buildings?                                                    | 3. One thousand dollars.              |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 4. One thousand five hundred dollars. |
| 5. Annual rate of profit on capital invested?                                                   | 5. Twenty five per cent.              |

## DOCUMENT 14.—No. 238—Continued.

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. \$2,000. Two-thirds upper, residue sole and calf skins.               |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. 300 hides, domestic, costing about \$900, about 50 Spanish hides.     |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. Two men, 1 boy.                                                      |
| 11. How many hours a day employed, and what portion of the year?                                                                      | 11. 12 hours for 10 months.                                              |
| 12. Whether the manufactures find a market at the manufactory? If not, how far are they sent to market?                               | 12. They do. None sent abroad.                                           |
| 14. Where are the manufactures consumed?                                                                                              | 14. In the vicinity.                                                     |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                             | 15. None.                                                                |
| 16. Whether the manufacture is sold by the manufacturer for cash? if on a credit, at what credit? if bartered, for what?              | 16. For cash in part; traded for hides, &c.; credited 6 months.          |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                  | 17. Sole 28 cents per lb.; upper, per side, * \$2 50; calf skins \$1 50. |
| 19. What has been the rate of your profits, annually, for the last three years?                                                       | 19. Twenty-five per cent.                                                |
| 21. Average rate of wages?                                                                                                            | 21. Sixteen dollars per month.                                           |

## DOCUMENT 14.—No. 239.

*S. White's Tannery, Crawford County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Crawford county, Pennsylvania.                                                      |
| 2. Kind or description of the manufactory?                                                                                            | 2. Leather manufactory.                                                                |
| 3. Capital invested in ground and buildings?                                                                                          | 3. One thousand two hundred dollars.                                                   |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. One thousand five hundred dollars.                                                  |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Twenty-five per cent.                                                               |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. \$2,000 manufactured, one-half upper, at \$2 50; sole at \$3; calf-skins at \$1 50. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. 300 hides (domestic) at \$3 per cwt., making \$900.                                 |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. Two men and one boy.                                                               |

## DOCUMENT 14.—No. 239—Continued.

| QUESTIONS.                                                                                                                 | ANSWERS.                                                                     |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 11. How many hours a day employed, and what portion of the year?                                                           | 11. Twelve hours, ten months.                                                |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to market?                    | 12. Market found in the vicinity.                                            |
| 14. Where are the manufactures consumed?                                                                                   | 14. In the vicinity.                                                         |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                  | 15. None are exported.                                                       |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what? | 16. Part in cash, part credited six months, part exchanged for raw material. |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                       | 17. Sole 28 cents; upper \$2.50 per skin; calf \$1.50.                       |
| 21. Average rate of wages?                                                                                                 | 21. Sixteen dollars per month.                                               |

## DOCUMENT 14.—No. 240.

*David Denham's Tannery, Crawford County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                             |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Crawford county, Pennsylvania.                    |
| 2. Kind or description of the manufactory?                                                                                            | 2. Leather.                                          |
| 3. Capital invested in ground and buildings?                                                                                          | 3. One thousand dollars.                             |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. One thousand five hundred dollars.                |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Twenty-five per cent.                             |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Two thousand dollars.                             |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. Three hundred hides, all domestic.                |
| 10. Number of men, women and children employed, and average wages of each class?                                                      | 10. Two men and one boy; men \$4, boy \$5 per month. |
| 11. How many hours a day employed; and what portion of the year?                                                                      | 11. Twelve hours, ten months.                        |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. In the vicinity.                                 |
| 14. Where are the manufactures consumed?                                                                                              | 14. In the vicinity.                                 |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                             | 15. None exported.                                   |

## DOCUMENT 14.—No. 240—Continued.

| QUESTIONS.                                                                                                                 | ANSWERS.                                                                           |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what? | 16. Part on credit of six months, part cash, and part bartered for hides and bark. |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                       | 17. Sole leather at 28 cents per pound; upper \$2 50 per side, and calf at \$1 50. |
| 21. Average rate of wages?                                                                                                 | 21. Sixteen dollars per month.                                                     |

## DOCUMENT 14.—No. 241.

*James M. Sterrett's Tannery, Erie County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Erie county, Pennsylvania.                                                                                                                           |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Leather factory.                                                                                                                                     |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                       | 4. Aggregate amount of capital employed is four thousand dollars.                                                                                       |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                        | 8. Rate of profit on capital, say twenty per cent.                                                                                                      |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. The value of articles manufactured about \$6,000.                                                                                                    |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?       | 10. The materials are principally of American production.                                                                                               |
| 12. Number of men, women, and children, employed, and average wages of each class?                                                    | 12. Number of persons employed are two men the whole year, at \$13 per month, \$312; two boys employed by the year, average wages \$6 per month, \$144. |
| 17. Whether foreign articles of the like kind enter into competition with them at such rate of sale; and to what extent?              | 17. The foreign article does not enter into the domestic consumption here.                                                                              |
| 18. Where are the manufactures consumed?                                                                                              | 18. The manufactures are consumed within the county principally.                                                                                        |

JAMES M. STERRETT.

## DOCUMENT 14.—No. 242.

*H. Cochran & Co.'s Leather Factory, Erie County, West Pennsylvania.*

| QUESTIONS.                                                | ANSWERS.                      |
|-----------------------------------------------------------|-------------------------------|
| 1. State and county in which the manufactory is situated? | 1. Erie county, Pennsylvania. |



## DOCUMENT 14.—No. 242—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Manufacture leather and shoes.                                |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Established in 1824; joint stock.                             |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. Two thousand dollars.                                         |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. Three hundred dollars.                                        |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. Profit increased in consequence of a increased demand.        |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                                                                     | 12. Five men employed.                                           |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                     | 13. Ten hours a day, the whole year.                             |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. Mostly at the manufactory.                                   |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                           | 17. They do not.                                                 |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. Generally in the neighborhood of the manufactory.            |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                             | 19. None exported.                                               |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                           | 20. For cash in part, three months' credit, and country produce. |

H. COCHRAN &amp; Co.

## DOCUMENT 14.—No. 243.

*Allen & Roswell's Leather and Shoe Factory, Erie County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Situated in Erie county, Pennsylvania.                              |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Shoe and leather factory.                                           |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Amount of capital employed per year, general aggregate, \$3,000.    |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. The rate of profit on the capital I should estimate at 20 per cent. |

## DOCUMENT 14.—No. 243—Continued.

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. Value of manufactured articles per year, \$4,000.                        |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?       | 10. The material is of American production principally.                     |
| 2. Number of men, women and children employed, and average wages of each class?                                                       | 12. Number of persons employed for the year is, four men at \$20 per month. |
| 7. Whether foreign articles of the like kind enter into competition with them at the place of sale, and to what extent?               | 17. Foreign articles do not enter into competition with us.                 |
| 8. Where are the manufactures consumed?                                                                                               | 18. The manufactures are principally consumed within the county.            |

ALLEN &amp; ROOSEVELT.

## DOCUMENT 14.—No. 244.

*J. C. Strawn's Leather Manufactory, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                                                                                 | ANSWERS.                                            |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                  | 1. Fayette county, Pennsylvania.                    |
| 2. Kind or description of the manufactory?                                                                                 | 2. Leather.                                         |
| 3. Capital invested in ground and buildings?                                                                               | 3. One thousand four hundred dollars.               |
| 4. Average amount in materials, and in wages for the purchase of materials and payment of wages?                           | 4. One thousand six hundred dollars.                |
| 5. Quantity and value of different kinds of materials used, distinguishing between foreign products and domestic products? | 8. Cost \$850; all domestic.                        |
| 6. Number of men, women and children employed, and average wages of each class?                                            | 10. Two men, 12 months, \$15 per month.             |
| 1. How many hours a day employed, and at what portion of the year?                                                         | 11. Eight hours per day.                            |
| 2. Whether the manufactures find a market at the manufactory? If not, how far they sent to a market?                       | 12. At home and Pittsburgh, Pennsylvania; 30 miles. |
| 4. Where are the manufactures consumed?                                                                                    | 14. In this State.                                  |
| 6. Whether the manufacture is sold by manufacturer for cash? and, if on credit, what credit? if bartered, for what?        | 16. One half cash, and the balance trade.           |
| 8. Amount of capital?                                                                                                      | 20. Three thousand eight hundred dollars.           |
| 1. Average rate of wages?                                                                                                  | 21. Fifteen dollars per month.                      |

This is a correct statement of my tan-yard, this 12th April, 1832.

J. C. STRAWN.

## DOCUMENT 14.—No. 245.

*David Downer's Tannery, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                  | ANSWERS.                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                   | 1. Fayette county, Pennsylvania.                                                 |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                                                                                                                                        | 2. Leather factory; by water power.                                              |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                     | 3. Established in 1812 by the present occupant.                                  |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                             | 4. Say \$7,000 stock, ground and buildings.                                      |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                             | 5. Stock.                                                                        |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                       | 9. Say 600 hides and 800 skins of different kinds, varying in price and quality. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                             | 10. Domestic.                                                                    |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                            | 12. 5 hands, including boys; wages per month \$15 for journeymen.                |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                            | 13. Twelve hours per day.                                                        |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                             | 15. Two horses.                                                                  |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                   | 16. Market at home.                                                              |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                  | 17. No competition.                                                              |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                    | 18. At home.                                                                     |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                    | 19. Not exported.                                                                |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                  | 20. For cash, and exchanged for hides, on credit.                                |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased, and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. About the same as when first established.                                    |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                        | 22. Upper and skins by the piece, according to the size and quality.             |

The above is a true statement of my tannery. April 11, 1832.

LEVI DOWNER.

## DOCUMENT 14.—No. 246.

*Tannery, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                                                                             | ANSWERS.                                |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 1. State and county in which the manufactory is situated?                                                              | 1. Fayette county, Pennsylvania.        |
| 2. Kind or description of the manufactory?                                                                             | 2. Tannery.                             |
| 3. Capital invested in ground and buildings?                                                                           | 3. Seventeen hundred dollars.           |
| 4. Average amount in materials, and in cash the purchase of materials and payment of gas?                              | 4. Thirty-six hundred dollars.          |
| 10. Number of men, women, and children employed, and average wages of each class?                                      | 10. Four men and two women.             |
| 11. How many hours a day employed, and at portion of the year?                                                         | 11. Whole year.                         |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they sent to a market?                  | 12. At home and in Pittsburgh.          |
| 14. Where are the manufactures consumed?                                                                               | 14. In the United States.               |
| 16. Whether the manufacture is sold by manufacturer for cash? and if on credit, at what credit? if bartered, for what? | 16. Cash, and credit at 60 and 90 days. |
| 21. Average rate of wages?                                                                                             | 21. From 10 to \$12 per month.          |

W. STONE.

NEW SALEM, 14th April, 1832.

## DOCUMENT 14.—No. 247.

*Tannery, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                                                                                 | ANSWERS.                                      |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                  | 1. Brownsville, Fayette county, Pennsylvania. |
| 2. Kind or description of the manufactory?                                                                                 | 2. Tannery.                                   |
| 3. Capital invested in ground and buildings?                                                                               | 3. One thousand dollars.                      |
| 4. Quantity and value of different kinds of materials used, distinguishing between foreign products and domestic products? | 8. About half foreign and half domestic.      |
| 14. Where are the manufactures consumed?                                                                                   | 14. In the neighborhood.                      |
| 20. Amount of capital?                                                                                                     | 20. Three thousand five hundred dollars.      |

DAVID BINNS.

April 19th, 1832.

## DOCUMENT 14.—No. 248.

*Tannery, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Fayette county, Pennsylvania.                                            |
| 2. Kind or description of the manufactory?                                                                                            | 2. Tannery.                                                                 |
| 3. Capital invested in ground and buildings?                                                                                          | 3. About one thousand eight hundred dollars.                                |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. About one thousand two hundred dollars.                                  |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. About forty per cent.                                                    |
| 6. Cause of the increase (or decrease, as the case may be,) of profit?                                                                | 6. Because imported leather is low.                                         |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. The Spanish hides compose a principal part of stock.                     |
| 8. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?        | 8. About three-fourths domestic hides, the balance Spanish.                 |
| 10. Number of men, women, and children, employed, and average wages of each class?                                                    | 10. Two hands, at \$10 per month each.                                      |
| 11. How many hours a day employed, and what portion of the year?                                                                      | 11. Twelve months.                                                          |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. At manufactory, and Pittsburgh, twenty-six miles.                       |
| 14. Where are the manufactures consumed?                                                                                              | 14. Mostly in the immediate neighborhood.                                   |
| 16. Whether the manufactures are sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?          | 16. Sold for cash, at different credits, and bartered for farmers' produce. |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                  | 17. Sole leather from 24 to 30 cents per pound; other kinds in proportion.  |
| 21. Average rate of wages?                                                                                                            | 21. From 12 to \$15 per month.                                              |

I do assert this to be as correct statement as my judgment can give to the above queries.

JAMES, for E. COLEMAN.

MERRITTSTOWN, April 17th, 1832.

## DOCUMENT 14.—No. 249.

*Tannery, Fayette County, West Pennsylvania.*

| QUESTIONS.                                                | ANSWERS.                         |
|-----------------------------------------------------------|----------------------------------|
| 1. State and county in which the manufactory is situated? | 1. Fayette county, Pennsylvania. |
| 2. Kind or description of the manufactory?                | 2. Tannery.                      |

## DOCUMENT 14.—No. 249—Continued.

| QUESTIONS.                                                                                                               | ANSWERS.                                          |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| 1. Capital invested in ground and build-<br>s?                                                                           | 3. Seventeen hundred dollars.                     |
| 2. Average amount in materials, and in<br>h for the purchase of materials and pay-<br>t of wages?                        | 4. Sixteen hundred dollars.                       |
| 0. Number of men, women, and children<br>ployed, and average wages of each class?                                        | 10. 3 men and 2 women.                            |
| 1. How many hours a day employed,<br>what portion of the year?                                                           | 11. Whole year.                                   |
| 2. Whether the manufactures find a<br>ket at the manufactory? If not, how far<br>y are sent to market?                   | 12. At home and Pittsburgh.                       |
| 6. Whether the manufacture is sold by<br>manufacturer for cash? and if on credit,<br>what credit? if bartered, for what? | 16. Cash, and credit at sixty and ninety<br>days. |
| 1. Average rate of wages?                                                                                                | 21. From ten to twelve dollars per month.         |

WILLIAM DALES.

Near BROWNSVILLE, April 16, 1832.

## DOCUMENT 14.—No. 250.

*Tannery, Jefferson County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufac-<br>is situated?                                                                             | 1. State of Pennsylvania, Jefferson county.                                                                                                               |
| 2. Kind or description of the manufactory?                                                                                            | 2. Tannery.                                                                                                                                               |
| 3. Capital invested in ground and build-<br>?                                                                                         | 3. Four hundred dollars.                                                                                                                                  |
| 4. Average amount in materials, and in<br>for the purchase of materials and pay-<br>t of wages?                                       | 4. Three hundred dollars.                                                                                                                                 |
| 5. Annual rate of profit on the capital in-<br>ed?                                                                                    | 5. Thirty per cent.                                                                                                                                       |
| 6. Amount of articles annually manufac-<br>d since the establishment of the manufac-<br>? Description, quality, and value of<br>kind? | 7. Sixty sides of sole, fifty of calf-skins, and<br>seventy-five of upper leather; sole per side,<br>\$3; calf-skins each, \$1 75; upper \$3 per<br>side. |
| 7. Quantity and value of different kinds of<br>materials used; distinguishing between<br>ign products and domestic products?          | 8. Ten gallons oil at one dollar per gal-<br>lon; bark, 25 cords, at \$2 25; 185 hides at<br>six cents per lb.                                            |
| 8. Cost in the United States of similar ar-<br>s of manufacture imported from abroad,<br>from what countries?                         | 9. Same as manufactured by me, and<br>from England.                                                                                                       |
| 9. Number of men, women, and children<br>loyed, and average wages of each class?                                                      | 10. None except myself.                                                                                                                                   |
| 10. Whether the manufactures find a<br>ket at the manufactory? If not, how far<br>are sent to a market?                               | 12. Market at the manufactory.                                                                                                                            |

## DOCUMENT 14.—No. 250—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 14. Where are the manufactures consumed?                                                                                                   | 14. In Jefferson county.                                     |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                  | 15. None exported.                                           |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. For cash, and at the prices in answer to question No. 7. |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Are the same as above.                                   |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. No duty necessary.                                       |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 19. Manufactory has been but one year in operation.          |
| 20. Amount of capital?                                                                                                                     | 20. Seven hundred dollars.                                   |

Yours, respectfully,

DAVID HENK.

## DOCUMENT 14.—No. 251.

*Enos Gillis's Tannery, Jefferson County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Pennsylvania, Jefferson county.                                       |
| 2. Kind or description of the manufactory?                                                                                            | 2. Tannery.                                                                       |
| 3. Capital invested in ground and buildings?                                                                                          | 3. One thousand dollars.                                                          |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Five hundred dollars.                                                          |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. One per cent.                                                                  |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. 200 sides sole, of the value of \$500; 200 sides upper, of the value of \$600. |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. Two men, at \$25 each per month.                                              |
| 11. How many hours a day employed, and what portion of the year?                                                                      | 11. Eight hours per day, and ten months per year.                                 |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. Partly at the tannery, and the rest in the adjoining counties.                |
| 14. Where are the manufactures consumed?                                                                                              | 14. In this and the adjoining counties.                                           |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 15. None exported.                                                                |

## DOCUMENT 14.—No. 251—Continued.

| QUESTIONS.                                                                                                                         | ANSWERS.                                                       |
|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Whether the manufacture is sold by manufacturer for cash? and if on credit, what credit? if bartered for what?                     | 16. Cash.                                                      |
| The prices at which the manufactures been sold by the manufacturer since establishment?                                            | 17. Thirty cents per lb. for sole, and \$3 per side for upper. |
| What rate of duty is necessary to enable manufacturer to enter into competition in the home market with similar articles imported? | 18. Not any.                                                   |
| Average rate of wages?                                                                                                             | 21. Twenty dollars.                                            |

Yours, respectfully,

ENOS GILLIS.

## DOCUMENT 14.—No. 252.

*Christopher Barr's Tannery, Jefferson County, West Pennsylvania.*

| QUESTIONS.                                                                                                                    | ANSWERS.                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| State and county in which the manufacture is situated?                                                                        | 1. State of Pennsylvania, Jefferson county.                                             |
| Kind or description of the manufactory?                                                                                       | 2. Tannery.                                                                             |
| Capital invested in ground and buildings?                                                                                     | 3. Two hundred dollars.                                                                 |
| Average amount in materials, and in cash for the purchase of materials and payment of wages?                                  | 4. One hundred dollars.                                                                 |
| Annual rate of profit on the capital invested?                                                                                | 5. Fifty per cent.                                                                      |
| Cause of the increase (or decrease, as case may be) of profit?                                                                | 6. The quantity of leather imported into the country causes a great decrease of profit. |
| Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each? | 7. Fifty hides: 25 hides sole, value each \$3; 25 of upper, value of each \$3.          |
| Number of men, women, and children employed, and average wages of each class?                                                 | 10. One man at \$12 per month.                                                          |
| How many hours a day employed; and at portion of the year?                                                                    | 11. Twelve.                                                                             |
| Whether the manufactures find a market at the manufactory? If not, how far they sent to a market?                             | 12. Market at the manufactory.                                                          |
| Where are the manufactures consumed?                                                                                          | 14. In the immediate vicinity.                                                          |
| Whether any of the manufactures are exported to foreign countries? and if so, where?                                          | 15. None exported.                                                                      |
| Whether the manufacture is sold by manufacturer for cash? and if on credit, what credit? if bartered, for what?               | 16. For cash.                                                                           |
| The prices at which the manufactures have been sold by the manufacturer since the establishment?                              | 17. About the same as in answer to question No. 7.                                      |
| What has been the rate of your profits, annually, for the last three years?                                                   | 19. Fifty per cent.                                                                     |
| Amount of capital?                                                                                                            | 20. Three hundred dollars.                                                              |
| Average rate of wages?                                                                                                        | 21. Twelve dollars.                                                                     |

Yours, respectfully,

CHRISTOPHER BARRY.



## DOCUMENT 14.—No. 253.

*William Leech's Leather Manufactory, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Mercer county, Pennsylvania.                                              |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Leather manufactory.                                                      |
| 3. Capital invested in ground and buildings?                                                                                               | 3. One thousand dollars.                                                     |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. One thousand two hundred dollars.                                         |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. Twenty-five per cent. on capital employed.                                |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. \$800, all domestic hides.                                                |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. Two men, average wages \$23.                                             |
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. 14 hours; 11 months.                                                     |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. At the manufactory.                                                      |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 13. It does.                                                                 |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the vicinity.                                                         |
| 15. Whether any of the manufactures are exported to foreign countries; and if so, where?                                                   | 15. None exported.                                                           |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Half cash; 3 months' credit on part, and balance bartered for hides, &c. |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Sole leather 31½ cents per lb; wags do. \$2 50 per side; calf-skins \$2. |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. The duty should not be reduced.                                          |
| 19. What has been the rate of your profits annually for the last three years?                                                              | 19. Two hundred dollars.                                                     |
| 20. Amount of capital?                                                                                                                     | 20. Eight hundred dollars employed.                                          |
| 21. Average rate of wages?                                                                                                                 | 21. Two hundred and fifty dollars.                                           |

## DOCUMENT 14.—No. 254.

*Robert G. Mossman's Leather Manufactory, West Granville, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                | ANSWERS.                        |
|-----------------------------------------------------------|---------------------------------|
| 1. State and county in which the manufactory is situated? | 1. Mercer county, Pennsylvania. |
| 2. Kind or description of the manufactory?                | 2. Leather manufactory.         |

## DOCUMENT 14.—No. 254.—Continued.

| QUESTIONS.                                                                                                                 | ANSWERS.                                                                               |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Capital invested in ground and build-<br>ing?                                                                              | 3. \$1,500.                                                                            |
| Average amount in materials, and in<br>the purchase of materials and pay-<br>ment of wages?                                | 4. \$2,000.                                                                            |
| Annual rate of profit on the capital in-<br>vested?                                                                        | 5. 25 per cent.                                                                        |
| Quantity and value of different kinds<br>of materials used; distinguishing between<br>imported and domestic products?      | 8. \$500 of foreign products, \$700 of do-<br>mestic; making \$1,200.                  |
| Cost in the United States of similar arti-<br>cles of manufacture imported from abroad,<br>from what countries?            | 9. Best La Plata hides, 16 cents per lb. at<br>Philadelphia.                           |
| Number of men, women and children<br>employed, and average wages of each class?                                            | 10. Three men, average wages \$250.                                                    |
| How many hours a day employed; and<br>what portion of the year?                                                            | 11. 14 hours, 11 months.                                                               |
| Whether the manufactures find a mar-<br>ket at the manufactory? If not, how far they<br>sent to a market?                  | 12. At the manufactory.                                                                |
| Whether foreign articles of the like<br>kind enter into competition with them at<br>the place of sale, and to what extent? | 13. It does.                                                                           |
| Where are the manufactures consumed?                                                                                       | 14. In the vicinity.                                                                   |
| Whether any of the manufactures are<br>exported to foreign countries? and, if so,<br>where?                                | 15. None exported.                                                                     |
| Whether the manufacture is sold by<br>the manufacturer for cash? and, if on credit,<br>what credit? if bartered, for what? | 16. About half cash, three months' credit<br>on part, and part bartered for hides, &c. |
| The prices at which the manufactures<br>are sold by the manufacturer since the<br>establishment?                           | 17. Sole leather at 31½ per lb., upper lea-<br>ther \$2 50 per side, calf skins \$2.   |
| Amount of capital?                                                                                                         | 20. \$1,500.                                                                           |
| Average rate of wages?                                                                                                     | 21. \$250.                                                                             |

## DOCUMENT 14.—No. 255.

*Abner Gibson's Leather Manufactory, Neshauch, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                  | ANSWERS.                        |
|---------------------------------------------------------------------------------------------|---------------------------------|
| State and county in which the manufac-<br>tury is situated?                                 | 1. Mercer county, Pennsylvania. |
| Kind or description of the manufactory?                                                     | 2. Leather manufactory.         |
| Capital invested in ground and build-<br>ing?                                               | 3. \$1,000.                     |
| Average amount in materials, and in<br>the purchase of materials and pay-<br>ment of wages? | 4. \$750.                       |
| Annual rate of profit on the capital in-<br>vested?                                         | 5. 25 per cent.                 |

## DOCUMENT 14.—No. 255.—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. \$600 worth domestic; no foreign.                                                                         |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. One man at \$175 per year.                                                                               |
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. 11 hours, the whole year.                                                                                |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. At the manufactory.                                                                                      |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 13. They do.                                                                                                 |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the vicinity of the manufactory.                                                                      |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. Not exported.                                                                                            |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Sold on a credit of one year, and bartered for hides and the produce of the country.                     |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Sole leather 28 cents per lb., upper leather \$2 44 per side, calf skins at from \$1 50 to \$2 per skin. |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. A higher duty than the present is not necessary, but it is believed that a reduction would be injurious. |
| 20. Amount of capital?                                                                                                                     | 20. \$1,500.                                                                                                 |

## DOCUMENT 14.—No. 256.

*Ebenezer Byers's Leather Manufactory, Sharon, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Mercer county, Pennsylvania.                                                       |
| 2. Kind or description of the manufactory?                                                                                            | 2. Leather manufactory.                                                               |
| 3. Capital invested in ground and buildings?                                                                                          | 3. \$200.                                                                             |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. \$500.                                                                             |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. 25 per cent.                                                                       |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Sole leather 31½ per lb., upper 50 cents per lb., calf skins from 75 cents to \$2. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. Raw materials about \$275; no foreign.                                             |

## DOCUMENT 14.—No. 256—Continued.

| QUESTIONS.                                                                                                          | ANSWERS.                                                                      |
|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| 10. Number of men, women and children employed, and average wages of each class?                                    | 10. One man and one boy; the man at \$150 per year; the boy at \$75 per year. |
| 11. How many hours a day employed, and at portion of the year?                                                      | 11. 8 hours, ten months.                                                      |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they sent to a market?               | 12. At the manufactory.                                                       |
| 14. Where are the manufactures consumed?                                                                            | 14. In the vicinity of the manufactory.                                       |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                            | 15. Not exported.                                                             |
| 16. Whether the manufacture is sold by manufacturer for cash? and if on credit, what credit? if bartered, for what? | 16. On a credit of one year, and bartered for hides and bark.                 |
| 20. Amount of capital?                                                                                              | 20. \$450.                                                                    |

## DOCUMENT 14.—No. 257.

*John Galloway's Leather Manufactory, Wilmington, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Mercer county, Pennsylvania.                                                             |
| 2. Kind or description of the manufactory?                                                                                            | 2. Leather manufactory.                                                                     |
| 3. Capital invested in ground and buildings?                                                                                          | 3. \$500.                                                                                   |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. \$1,000.                                                                                 |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. 25 per cent.                                                                             |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Sole leather 31½ per lb., upper leather \$30 per dozen sides, calf-skins \$21 per dozen. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. \$600 worth of hides and skins.                                                          |
| 10. Number of men, women and children employed, and average wages of each class?                                                      | 10. One man and one boy; \$18 per month for the man, and \$10 per month for the boy.        |
| 11. How many hours a day employed, and at what portion of the year?                                                                   | 11. 10 hours per day the whole year.                                                        |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they sent to a market?                                 | 12. At the manufactory.                                                                     |
| 14. Where are the manufactures consumed?                                                                                              | 14. In the vicinity of the manufactory.                                                     |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                             | 15. None exported.                                                                          |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 16. Part on a credit of six months, part bartered for stock and the produce of the country. |

## DOCUMENT 14.—No. 257.—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Sole leather has varied from 36 to 1 cents per lb.; upper leather has remained more steady. |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. A high duty.                                                                                |
| 20. Amount of capital?                                                                                                                     | 20. \$1,000.                                                                                    |

## DOCUMENT 14.—No. 258.

*M. Cadwallader's Tannery, Mahoning, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Mercer county, Pennsylvania.                                                                                     |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Leather manufactory.                                                                                             |
| 3. Capital invested in ground and buildings?                                                                                               | 3. Two thousand dollars.                                                                                            |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. One thousand five hundred dollars.                                                                               |
| 5. Annual rates of profit on the capital invested?                                                                                         | 5. About twenty-five per cent.                                                                                      |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. About \$100 worth of foreign hides; about \$800 for domestic hides and skins; \$300 for oil, bark, and blacking. |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. Two men at \$13 per month each.                                                                                 |
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. Fourteen hours, eleven months.                                                                                  |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. At the manufactory.                                                                                             |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 13. They do, but not to a great extent.                                                                             |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the vicinity of the manufactory.                                                                             |
| 15. Whether any of the manufactures are exported to foreign countries; and if so, where?                                                   | 15. They are not exported.                                                                                          |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Half for cash, a part on a credit of six months, and a part bartered for hides, bark &c. &c.                    |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Sole leather 31½ cents per pound; upper leather \$2.50 per side; calf skins at from \$1.75 to \$2.25 per skin.  |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. A high duty.                                                                                                    |
| 20. Amount of capital?                                                                                                                     | 20. About \$3,000.                                                                                                  |

## DOCUMENT 14.—No. 259.

*William Moore's Tannery, New Bedford, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Mercer county, Pennsylvania.                                                                                                                |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Leather manufactory.                                                                                                                        |
| 3. Capital invested in ground and buildings?                                                                                               | 3. Four hundred dollars.                                                                                                                       |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. Six hundred and thirty-eight dollars.                                                                                                       |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. Twenty-five per cent.                                                                                                                       |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. Sole leather is worth 31½ cents per lb., upper from \$2 to \$3.25 per side, calf skins \$1.50 to \$3; horse leather \$1 to \$1.50 per side. |
| 8. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?             | 8. Three hundred and fifty dollars; all domestic.                                                                                              |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. Two men at \$12 per month.                                                                                                                 |
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. Ten hours, ten months.                                                                                                                     |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. At the manufactory.                                                                                                                        |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the vicinity of the manufactory.                                                                                                        |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                  | 15. Not exported.                                                                                                                              |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, what credit? if bartered, for what?                    | 16. One-third for cash, one-third on a credit of six months, and one-third bartered for hides and country produce.                             |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. A high duty.                                                                                                                               |

## DOCUMENT 14.—No. 260.

*Alexander Johnson's Tannery, Mahoning, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                       | ANSWERS.                        |
|--------------------------------------------------------------------------------------------------|---------------------------------|
| 1. State and county in which the manufactory is situated?                                        | 1. Mercer county, Pennsylvania. |
| 2. Kind or description of the manufactory?                                                       | 2. Leather manufactory.         |
| 3. Capital invested in ground and buildings?                                                     | 3. Three hundred dollars.       |
| 4. Average amount in materials, and in cash for the purchase of materials, and payment of wages? | 4. Three hundred dollars.       |
| 5. Annual rate of profit on the capital invested?                                                | 5. Twenty-five per cent.        |

## DOCUMENT 14.—No. 260—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. About \$400. Sole leather 31½ cents per pound; upper 50 cents per pound; calf skins from \$1 to \$2 50. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. About \$200 of domestic; no foreign.                                                                    |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. One man.                                                                                               |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. Ten hours; eight months.                                                                               |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. At the manufactory.                                                                                    |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the vicinity of the manufactory.                                                                    |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. On a credit of six months, and bartered for stock for the manufactory and the produce of the country.  |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. A high duty.                                                                                           |

## DOCUMENT 14.—No. 261.

*William Dickson's Leather Manufactory, Newcastle, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                                                     | ANSWERS.                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                      | 1. Mercer county, Pennsylvania.                                                                              |
| 2. Kind or description of the manufactory?                                                                                     | 2. Leather manufactory.                                                                                      |
| 3. Capital invested in ground and buildings?                                                                                   | 3. Two thousand dollars.                                                                                     |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                | 4. One thousand five hundred dollars.                                                                        |
| 5. Annual rate of profit on capital invested?                                                                                  | 5. About 25 per cent. profit.                                                                                |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products? | 8. About \$100 worth of foreign hides about \$800 for domestic hides, and \$300 for oil, bark, and blacking. |
| 10. Number of men, women, and children employed, and average wages of each class?                                              | 10. Two men, at \$13 per month.                                                                              |
| 11. How many hours a day employed, and what portion of the year?                                                               | 11. Fourteen hours, 11 months.                                                                               |
| 12. Whether the manufactures find a market at the manufactory? If not, how far are they sent to market?                        | 12. At the manufactory.                                                                                      |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?     | 13. They do, but not to a great extent.                                                                      |
| 14. Where are the manufactures consumed?                                                                                       | 14. In the vicinity of the manufactory.                                                                      |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                       | 15. They are not exported.                                                                                   |

## DOCUMENT 14.—No. 261.—Continued.

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 5. Whether the manufacture is sold by manufacturer for cash? and if on credit, hat credit? if bartered, for what?                     | 16. Half for cash, a part on a credit of 6 months, and a part bartered for hides, bark, &c.    |
| 6. The prices at which the manufactures been sold by the manufacturer since the establishment?                                        | 17. Sole leather 31½ cents per lb.; upper leather \$2 50 per side; calf-skins \$2 per skin.    |
| 7. What rate of duty is necessary to enable manufacturer to enter into competition in the home market with similar articles imported? | 18. The present duty is not deemed injurious, but it is believed that a reduction would be so. |
| 8. Amount of capital?                                                                                                                 | 20. About \$3,000.                                                                             |

## DOCUMENT 14.—No. 262;

*Leather Manufactory, Slippery Rock, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Mercer county, Pennsylvania.                                                                                                |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Leather manufactory.                                                                                                        |
| 3. Capital invested in ground and building?                                                                                                | 3. Three hundred dollars.                                                                                                      |
| 4. Average amount in materials, and in for the purchase of materials and payment of wages?                                                 | 4. Three hundred dollars.                                                                                                      |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. Twenty-five per cent.                                                                                                       |
| 6. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of kind?           | 7. About four hundred dollars; sole leather 31½ cents per pound; upper 50 cents per pound; calf skins from \$1 to \$2 50 each. |
| 7. Quantity and value of different kinds of materials used; distinguishing between foreign products and domestic products?                 | 8. About two hundred dollars of domestic; no foreign.                                                                          |
| 8. Number of men, women and children employed, and average wages of each class?                                                            | 10. 1 man.                                                                                                                     |
| 9. How many hours a day employed, and portion of the year?                                                                                 | 11. 10 hours, 8 months.                                                                                                        |
| 10. Whether the manufactures find a market at the manufactory? If not, how far are sent to a market?                                       | 12. At the manufactory.                                                                                                        |
| 11. Where are the manufactures consumed?                                                                                                   | 14. In the vicinity of the manufactory.                                                                                        |
| 12. Whether the manufacture is sold by manufacturer for cash? and if on credit, hat credit? if bartered, for what?                         | 16. On a credit of six months, and bartered for stock for the manufactory, and the produce of the country.                     |
| 13. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. A high duty.                                                                                                               |

JOHN STEVENSON.



## DOCUMENT 14.—No. 263.

*Leather Manufactory, Mercer County, Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Mercer county, Pennsylvania.                                                                           |
| 2. Kind or description of the manufactory?                                                                                            | 2. Leather manufactory.                                                                                   |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Two thousand dollars.                                                                                  |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. One thousand five hundred dollars.                                                                     |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Seventy-five per cent.                                                                                 |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. 2,000 dollars; upper \$5 30, sides \$3, sole \$3 20, sides \$3 50 or 31½ cr. per lb. calf-skin \$1 50. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. Hides and bark, oil, &c., all domestic \$1,300; Spanish hides \$290.                                   |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. Three men.                                                                                            |
| 11. How many hours a day employed, and what portion of the year?                                                                      | 11. Twelve hours all the year.                                                                            |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. In the vicinity, and at Pittsburgh, 8 miles.                                                          |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?            | 13. No.                                                                                                   |
| 14. Where are the manufactures consumed?                                                                                              | 14. Vicinity, and at Pittsburgh.                                                                          |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 15. No.                                                                                                   |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 16. Some for cash, part credit 6 months, and 6 years, and bartered for country produce, hides, bark, &c.  |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                  | 17. Upper \$2 50 per side; sole 31½ per lb.                                                               |

JONATHAN SMITH

## DOCUMENT 14.—No. 264.

*Bevan Pearson's Leather Manufactory, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                | ANSWERS.                        |
|-----------------------------------------------------------|---------------------------------|
| 1. State and county in which the manufactory is situated? | 1. Mercer county, Pennsylvania. |
| 2. Kind or description of the manufactory?                | 2. Leather manufactory.         |
| 3. Capital invested in ground and buildings?              | 3. \$1,500.                     |

## DOCUMENT 14.—No. 264—Continued.

| QUESTIONS.                                                                                                                                             | ANSWERS.                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Average amount in materials, and in for the purchase of materials and pay-<br>ment of wages?                                                           | 4. About \$1,200.                                                               |
| Annual rate of profit on the capital in-<br>vested?                                                                                                    | 5. About \$500.                                                                 |
| Cause of the increase (or decrease, as<br>case may be,) of profit?                                                                                     | 6. Little or no change.                                                         |
| Amount of articles annually manufac-<br>tured since the establishment of the manu-<br>factory? Description, quality, and value of<br>each kind?        | 7. Cannot answer.                                                               |
| Quantity and value of different kinds<br>raw materials used; distinguishing be-<br>tween foreign products and domestic pro-<br>ducts?                  | 8. Answered, in part, in 4th query                                              |
| Cost in the United States of similar ar-<br>ticles of manufacture imported from abroad,<br>from what countries?                                        | 9. Cannot answer.                                                               |
| 10. Number of men, women, and chil-<br>dren employed, and average wages of each<br>sex?                                                                | 10. Generally two men.                                                          |
| 1. How many hours a day employed; and<br>at portion of the year?                                                                                       | 11. No particular time; generally the whole<br>day, except winter.              |
| 2. Whether the manufactures find a mar-<br>ket at the manufactory? If not, how far they<br>sent to a market?                                           | 12. Market at the factory.                                                      |
| 3. Whether foreign articles of the like<br>kind enter into competition with them at<br>the place of sale; and to what extent?                          | 13. No competition by foreign articles,<br>except some brought from York State. |
| 4. Where are the manufactures consumed?                                                                                                                | 14. In the neighborhood.                                                        |
| 5. Whether any of the manufactures are<br>exported to foreign countries? and if so,<br>where?                                                          | 15. None.                                                                       |
| 6. Whether the manufacture is sold by<br>the manufacturer for cash? and if on credit,<br>what credit? if bartered, for what?                           | 16. Sold for cash: sometimes bartered for<br>hides and grain, or other trade.   |
| 7. The prices at which the manufactures<br>have been sold by the manufacturer since the<br>establishment?                                              | 17. Sole leather at 31½ cents per lb.; for<br>the upper about \$2 50 per side.  |
| 8. What rate of duty is necessary to en-<br>able the manufacturer to enter into competi-<br>tion in the home market with similar articles<br>imported? | 18. None required.                                                              |
| 9. What has been the rate of your pro-<br>fit annually, for the last three years?                                                                      | 19. We calculate on about 50 per cent.<br>profit, expense deducted.             |
| 10. Amount of capital?                                                                                                                                 | 20. About \$1,000.                                                              |
| 11. Average rate of wages?                                                                                                                             | 21. From \$150 to \$200 per year.                                               |

## DOCUMENT 14.—No. 265.

*Charles Dickson's Leather Manufactory, Harlensburg, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Mercer county, Pennsylvania.                                                                                                             |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Leather manufactory.                                                                                                                     |
| 3. Capital invested in ground and buildings?                                                                                               | 3. \$600.                                                                                                                                   |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. \$800.                                                                                                                                   |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. 25 per cent.                                                                                                                             |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. Sole leather is worth 3½ cents per pound; upper, from \$2 to \$3 25, per side; calf-skins, \$1 50 to \$3; horse, \$1 to \$1 50 per side. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. \$500; all domestic.                                                                                                                     |
| 10. Number of men, women and children employed, and average wages of each class?                                                           | 10. 2 men at \$15 per month.                                                                                                                |
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. 10 hours, 10 months.                                                                                                                    |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. At the manufactory.                                                                                                                     |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the vicinity of the manufactory.                                                                                                     |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. Not exported.                                                                                                                           |
| 16. Whether the manufacture is sold by the manufacturer for cash? and, if on credit, at what credit? if bartered, for what?                | 16. One-third for cash; one-third on credit of 6 months; one-third bartered for tools and country produce.                                  |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. A high duty.                                                                                                                            |

## DOCUMENT 14.—No. 266.

*David McEwen's Leather Manufactory, Slippery Rock, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.                        |
|-------------------------------------------------------------------------------------------------|---------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Mercer county, Pennsylvania. |
| 2. Kind or description of the manufactory?                                                      | 2. Leather manufactory.         |
| 3. Capital invested in ground and buildings?                                                    | 3. \$1,000.                     |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 4. \$750.                       |
| 5. Annual rate of profit on the capital invested?                                               | 5. 25 per cent.                 |

## DOCUMENT 14.—No. 266—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 9. Quantity and value of different kinds raw materials used; distinguishing between eign products and domestic products?                   | 8. \$600 domestic; no foreign.                                                                               |
| 10. Number of men, women and children employed, and average wages of each class?                                                           | 10. 1 man at \$175 per year.                                                                                 |
| 11. How many hours a day employed, and at portion of the year?                                                                             | 11. 11 hours; the whole year.                                                                                |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they sent to a market                                       | 12. At the manufactory.                                                                                      |
| 13. Whether foreign articles of the like kind enter into competition with them at a place of sale; and to what extent?                     | 13. They do.                                                                                                 |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the vicinity of the manufactory.                                                                      |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                  | 15. Not exported.                                                                                            |
| 16. Whether the manufacture is sold by the manufacturer for cash? and, if on credit, what credit? if bartered, for what?                   | 16. Sold on a credit of 6 months, and bartered for hides and country produce.                                |
| 17. The prices at which the manufactures have been sold by the manufacturer since establishment?                                           | 17. Sole leather 28 cents per pounds; upper, \$2 44 per side; calf-skins, \$1 75 per skin.                   |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. A higher duty than the present is not necessary; but it is believed that a reduction would be injurious. |
| 20. Amount of capital?                                                                                                                     | 20. \$1,500.                                                                                                 |

## DOCUMENT 14.—No. 267.

*Thomas Falk's Tannery, New Castle, Mercer County, West Pennsylvania:*

| QUESTIONS.                                                                                                                  | ANSWERS.                                     |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                   | 1. Mercer county, Pennsylvania.              |
| 2. Kind or description of the manufactory?                                                                                  | 2. Leather manufactory.                      |
| 3. Capital invested in ground and buildings?                                                                                | 3. One thousand dollars.                     |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                             | 4. Seven hundred and fifty dollars.          |
| 5. Annual rate of profit on the capital invested?                                                                           | 5. Twenty-five per cent.                     |
| 6. Quantity and value of different kinds raw materials used; distinguishing between foreign products and domestic products? | 6. Six hundred dollars domestic; no foreign. |
| 7. Number of men, women and children employed, and average wages of each class?                                             | 10. One man at \$ 175 per year.              |
| 8. How many hours a day employed; and at portion of the year?                                                               | 11. Eleven hours, the whole year.            |

## DOCUMENT 14.—No. 267—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 12. Whether the manufactures find a market at the manufactory? If not, how far, they are sent to a market?                                 | 12. At the manufactory.                                                                                         |
| 13. Whether foreign articles of the like kinds enter into competition with them, at such place of sale; and to what extent?                | 13. They do.                                                                                                    |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the vicinity of the manufactory.                                                                         |
| 15. Whether any of the manufactures are exported to foreign countries? And if so, where?                                                   | 15. Not exported.                                                                                               |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Sold on a credit of one year, and bartered for hides and the produce of the country.                        |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Sole leather 28 cents per pound; up per \$2 44 per side; calf-skins \$1 75 per skin.                        |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. A higher duty than the present is not necessary, but it is believed that a reduction would prove injurious. |
| 20. Amount of capital?                                                                                                                     | 20. Fifteen hundred dollars.                                                                                    |

## DOCUMENT 14.—No. 268.

*Lewis Carey's Tannery, Sharon, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Mercer county, Pennsylvania.                                                                     |
| 2. Kind, or description of the manufactory?                                                                                           | 2. Leather manufactory.                                                                             |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Two hundred dollars.                                                                             |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Five hundred dollars.                                                                            |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Twenty-five per cent.                                                                            |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Sole leather 31½ cents per lb.; upper 50 cents per lb.; calf-skins from 75 cents to two dollars. |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. Raw materials \$275; no foreign.                                                                 |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. One man, one boy; the man at \$15 per year, the boy at \$7 50 per year.                         |
| 11. How many hours a day employed, and what portion of the year?                                                                      | 11. Eight hours, ten months.                                                                        |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. At the manufactory.                                                                             |

## DOCUMENT 14.—No. 268.—Continued.

| QUESTIONS.                                                                                                         | ANSWERS.                                                      |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| 1. Where are the manufactures consumed?                                                                            | 14. In the vicinity of the manufactory.                       |
| 5. Whether any of the manufactures are exported to foreign countries? and if so, where?                            | 15. Not exported.                                             |
| 1. Whether the manufacture is sold by manufacturer for cash? and if on credit, what credit? if bartered, for what? | 16. On a credit of one year, and bartered for hides and bark. |
| 3. Amount of capital?                                                                                              | 20. Four hundred and fifty dollars.                           |

## DOCUMENT 14.—No. 269.

*Andrew Bowman's Tannery, Venango County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Venango county, Pennsylvania.                                                                                             |
| 2. Kind or description of the manufactory?                                                                                            | 2. Tanyard and currying shop.                                                                                                |
| 3. Capital invested in ground and buildings?                                                                                          | 3. One thousand dollars.                                                                                                     |
| 4. Average amount in materials, and in wages for the purchase of materials and payment of wages?                                      | 4. Two thousand dollars.                                                                                                     |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Three hundred dollars.                                                                                                    |
| 6. Cause of the increase (or decrease, as case may be) of profit?                                                                     | 6. Decrease of profit, owing to the scarcity of cash in the country.                                                         |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. 200 sides of sole, 250 upper and harness at \$3 per side, amount \$1,250; sixty calf-skins at \$1.50, \$90.               |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. Between three and four hundred hides and skins; beef hides five cents per lb., calf eight; no Spanish hides manufactured. |
| 9. Number of men, women, and children employed, and average wages of each class?                                                      | 10. Three men and a boy, or two, most of the time.                                                                           |
| 1. How many hours a day employed, and at portion of the year?                                                                         | 11. Nine hours for three-fourths of the year, more or less.                                                                  |
| 2. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                              | 12. Sell all at the place manufactured.                                                                                      |
| 3. Whether foreign articles of the like kind enter into competition with them at the place of sale; and to what extent?               | 13. Spanish sole sometimes vended here lower than we can afford country sole.                                                |
| 4. Where are the manufactures consumed?                                                                                               | 14. In the county of Venango principally.                                                                                    |
| 5. Whether any of the manufactures are exported to foreign countries? and if so, where?                                               | 15. None exported.                                                                                                           |
| 6. Whether the manufacture is sold by manufacturer for cash? and if on credit, what credit? if bartered, for what?                    | 16. Not much for cash, (grain after harvest, &c. &c.)                                                                        |

## DOCUMENT 14.—No. 269—Continued.

| QUESTIONS.                                                                                           | ANSWERS.                                                                                        |
|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment? | 17. Sole at 33½ cents per pound; upper from \$2 50 to \$3 50 per side; <i>cellulose</i> to \$3. |
| 19. What has been the rate of your profits, annually, for the last three years?                      | 19. From 25 to 30 per cent.                                                                     |
| 20. Amount of capital?                                                                               | 20. Stock in the yard worth from \$1,000 to \$2,500.                                            |
| 21. Average rate of wages?                                                                           | 21. From \$10 to \$12 per month, &c.                                                            |

ANDREW BOWMAN.

## DOCUMENT 14.—No. 270.

*Shoe and Boot Manufactory, Armstrong County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. State of Pennsylvania, Armstrong co.                     |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Shoe and boot.                                           |
| 3. Capital invested in ground and buildings?                                                                                               | 3. Forty dollars.                                           |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. One thousand dollars.                                    |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. \$100, or 10 per cent.                                   |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. Hemp thread \$75 per annum; <i>knives</i> \$6, domestic. |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. Two men, at \$5 per week.                               |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. 12 hours per day, and all the year.                     |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to market?                                    | 12. Market at the manufactory.                              |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 13. To the fullest extent.                                  |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the immediate vicinity.                              |
| 16. Whether the manufactory is sold by the manufacturer for cash? and if on credit, at what credit? it bartered, for what?                 | 16. For cash; \$2 50 for booters, and \$2 25 for shoes, &c. |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Have always been the same.                              |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. 25 cents per pair on shoes, and \$1 9 on booters.       |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 19. Thirty per cent.                                        |
| 20. Amount of capital?                                                                                                                     | 20. Is three hundred dollars.                               |

Yours, respectfully,

PATRICK SHERREY.

## DOCUMENT 14.—No. 371.

*Boot and Shoe Manufactory, Beaver, Beaver County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Beaver county, Pennsylvania.                                                                                                   |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Boot and shoe manufactory.                                                                                                     |
| 3. Capital invested in ground and buildings?                                                                                               | 3. Three hundred dollars.                                                                                                         |
| 4. Annual rate of profit on the capital invested?                                                                                          | 5. Twelve per cent.                                                                                                               |
| 5. Cause of the increase, (or decrease, as case may be,) of profit?                                                                        | 6. Cause of decrease, foreign importation.                                                                                        |
| 6. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. 100 pairs of boots, and 1,000 pairs of shoes; average value of boots, 6 dollars; shoes, 2 dollars.                             |
| 7. Quantity and value of different kinds of materials used; distinguishing between foreign products and domestic products?                 | 8. 1,600 lbs. sole leather; 28 dozen calf-skins and upper leather; sole leather, 28 cts. per lb.; calf-skins, 24 dollars per doz. |
| 8. Number of men, women, and children employed, and average wages of each class?                                                           | 10. 5 men employed, each at 15 dollars per month; 1 woman at 4 dollars per month.                                                 |
| 9. How many hours a day employed, and at portion of the year?                                                                              | 11. Average time employed, 12 hours of the 24.                                                                                    |
| 10. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. They find a market the manufactory.                                                                                           |
| 11. Whether foreign articles of the like kind enter into competition with them at the place of sale; and to what extent?                   | 13. Foreign articles, of the same kind enter into competition, but to what extent is not exactly known.                           |
| 12. Where are the manufactures consumed?                                                                                                   | 14. In the county above named.                                                                                                    |
| 13. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. None of the manufactures are exported.                                                                                        |
| 14. Whether the manufacture is sold by the manufacturer for cash? and if on credit, what credit? if bartered, for what?                    | 16. One-fourth of the articles manufactured sold for cash; the balance on credit of six to twelve months.                         |
| 15. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. The average price of boots has been as high as eight dollars per pair; of shoes, two dollars and fifty cents per pair.        |
| 16. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. A duty that will amount to a prohibition.                                                                                     |
| 17. What has been the rate of your profits, usually, for the last three years?                                                             | 19. Profits per annum, about four hundred dollars.                                                                                |
| 18. Amount of capital.                                                                                                                     | 20. Two thousand dollars.                                                                                                         |
| 19. Average rate of wages?                                                                                                                 | 21. Average wages about fifteen dollars.                                                                                          |

JOSEPH VERA.



## DOCUMENT 14.—No. 273.

*Wm. Phillips's Boot and Shoe Manufactory, Beaver County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Beaver county, State of Pennsylvania.                                                                                                         |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Boot and shoe manufactory.                                                                                                                    |
| 3. Capital invested in ground and buildings?                                                                                               | 3. \$2,000.                                                                                                                                      |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. \$1,000.                                                                                                                                      |
| 5. Annual rate of profit on capital invested?                                                                                              | 5. 12 per cent.                                                                                                                                  |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                    | 6. Decreased because of the New England competition.                                                                                             |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. \$2,000 Spanish hides, home manufactured, and other necessary foreign materials; \$1,000 of home manufactured leather for this country hides. |
| 10. Number of men, women and children employed, and average wages of each class?                                                           | 10. 4 men; 2 boys; 2 women.                                                                                                                      |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. 12 hours throughout the year.                                                                                                                |
| 12. Whether the manufactures finds a market at the manufactory? If not, how far they are sent to a market?                                 | 12. Sold at the manufactory.                                                                                                                     |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 13. Foreign articles do not affect them.                                                                                                         |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In Beaver county.                                                                                                                            |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. They are not exported from this county.                                                                                                      |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. $\frac{1}{2}$ cash; $\frac{1}{2}$ credit; $\frac{1}{2}$ trade.                                                                               |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. A duty of 20 per cent. ad valorem.                                                                                                           |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 19. 25 per centum.                                                                                                                               |
| 20. Amount of capital?                                                                                                                     | 20. \$1,000.                                                                                                                                     |
| 21. Average rate of wages?                                                                                                                 | 21. Men, \$6.                                                                                                                                    |

## DOCUMENT 14.—No. 273.

*Boot and Shoe Manufactory, Beaver County, West Pennsylvania.*

| QUESTIONS.                                                | ANSWERS.                                 |
|-----------------------------------------------------------|------------------------------------------|
| 1. State and county in which the manufactory is situated? | 1. Beaver county, State of Pennsylvania. |
| 2. Kind or description of the manufactory?                | 2. Boot and shoe manufactory.            |

## DOCUMENT 14.—No. 273.—Continued.

| QUESTIONS.                                   | ANSWERS.                                    |
|----------------------------------------------|---------------------------------------------|
| Capital invested in ground and build-        | 3. Fifteen hundred dollars.                 |
| Average amount in materials, and in          | 4. Two thousand dollars.                    |
| for the purchase of materials and pay-       |                                             |
| ment of wages?                               | 5. Twelve per cent.                         |
| Annual rate of profit on the capital in-     |                                             |
| vested?                                      | 6. Decreased because of New England         |
| Cause of the increase (or decrease, as       | competition.                                |
| case may be) of profit?                      | 7. \$3,000 Spanish hides, home manufac-     |
| Amount of articles annually manufac-         | tured, and other necessary foreign mate-    |
| ured since the establishment of the manu-    | rials; \$2,000 of home manufactured leather |
| factory? Description, quality, and value of  | from country hides.                         |
| a kind?                                      | 10. 7 men, 5 boys, and 2 women.             |
| Number of men, women, and children           |                                             |
| employed, and average wages of each class?   | 11. 12 hours throughout the year.           |
| 1. How many hours a day employed, and        |                                             |
| what portion of the year?                    | 12. Sold at the manufactory.                |
| 2. Whether the manufactures find a           |                                             |
| market at the manufactory? If not, how far   |                                             |
| are sent to a market?                        | 13. Foreign articles do not affect them.    |
| 13. Whether foreign articles of the like     |                                             |
| kind enter into competition with them at     |                                             |
| the place of sale, and to what extent?       | 14. In Beaver county.                       |
| 4. Where are the manufactures consum-        |                                             |
| ed?                                          | 15. They are not exported from this         |
| 5. Whether any of the manufactures are       | county.                                     |
| exported to foreign countries? and if so,    |                                             |
| where?                                       | 16. One-half credit, one-quarter cash,      |
| 16. Whether the manufacture is sold by       | one-quarter trade.                          |
| manufacturer for cash? and if on credit,     |                                             |
| what credit? if bartered, for what?          | 18. A duty of twenty per cent. ad valorem.  |
| 8. What rate of duty is necessary to en-     |                                             |
| able the manufacturer to enter into compe-   |                                             |
| tition in the home market with similar arti- |                                             |
| cles imported?                               | 19. Twenty-five per cent.                   |
| 9. What has been the rate of your profits,   |                                             |
| usually, for the last three years?           | 20. Two thousand dollars.                   |
| 0. Amount of capital?                        | 21. Men, 8 dollars.                         |
| 1. Average rate of wages?                    |                                             |

Respectfully,

JOHN Y. MILLER.

## DOCUMENT 14.—No. 274.

*Boot and Shoe Manufactory, Erie County, West Pennsylvania.*

| QUESTIONS.                                   | ANSWERS.                                  |
|----------------------------------------------|-------------------------------------------|
| 1. State and county in which the manufac-    | 1. Pennsylvania, Erie, Erie county.       |
| tory is situated?                            |                                           |
| 2. Kind or description of the manufactory?   | 2. Boots and shoes of ordinary kinds.     |
| 3. Capital invested in ground and buildings? | 3. Shop and ground, four hundred dollars. |

## DOCUMENT 14.—No. 274—Continued.

| QUESTIONS.                                                                                                                 | ANSWERS.                                                 |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                            | 4. Whole amount, embracing materials and wages, \$2,100. |
| 5. Annual rate of profit on the capital invested?                                                                          | 5. One-third on amount.                                  |
| 10. Number of men, women, and children employed, and average wages of each class?                                          | 10. Average number of men 6; wages \$18 per month.       |
| 14. Where are the manufactures consumed?                                                                                   | 14. Within the county.                                   |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what? | 16. Credit and barter.                                   |

J. &amp; J. WILLIAMS.

## DOCUMENT 14.—No. 275.

*Samuel Woods, Shoemaker, Waynesburg, Greene County, West Pennsylvania.*

| QUESTIONS.                                                                                                                 | ANSWERS.                                         |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                  | 1. Pennsylvania, Greene county.                  |
| 2. Kind or description of the manufactory?                                                                                 | 2. Boot and shoemaking.                          |
| 3. Capital invested in ground and buildings?                                                                               | 3. Six hundred and fifty dollars.                |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                            | 4. Three hundred and fifty dollars.              |
| 5. Annual rate of profit on the capital invested?                                                                          | 5. Fifteen per cent.                             |
| 10. Number of men, women and children employed, and average wages of each class?                                           | 10. One man and one boy, 44 cents per day, each. |
| 11. How many hours a day employed, and what portion of the year?                                                           | 11. 12 hours per day, the year round.            |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                  | 12. Sold at the factory.                         |
| 14. Where are the manufactures consumed?                                                                                   | 14. In Greene county, Pennsylvania.              |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                   | 15. None.                                        |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what? | 16. Generally bartered.                          |
| 21. Average rate of wages.                                                                                                 | 21. Men about 50 cents per day.                  |

## DOCUMENT 14.—No. 276.

*P. Sharpneck, Shoemaker, Jefferson, Greene County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Jefferson, Greene county, Pennsylvania.                                                                     |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Boot and shoe manufactory.                                                                                  |
| 3. Capital invested in ground and buildings?                                                                                               | 3. One thousand dollars.                                                                                       |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. Two hundred dollars.                                                                                        |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. Fifty per cent.                                                                                             |
| 6. Cause of the increase, (or decrease, as the case may be) of profit?                                                                     | 6. No change in business or profits.                                                                           |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. Twenty pair boots annually, worth \$5 per pair; two hundred and fifty pair shoes annually, at \$2 per pair. |
| 8. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?             | 8. About six hundred dollars' worth of leather; no foreign materials.                                          |
| 9. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                             | 9. No articles or materials imported.                                                                          |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. No assistance employed.                                                                                    |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. Work about 12 hours each day, and all seasons of the year.                                                 |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. Find a market for all at the manufactory.                                                                  |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 13. No foreign articles offered here for sale.                                                                 |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the State of Pennsylvania.                                                                              |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. None exported.                                                                                             |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Sold for cash and produce, as we can agree.                                                                |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Answered in the 7th answer.                                                                                |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. There being none imported, no duty can be laid; we don't suffer from imported articles in our line.        |
| 19. What has been the rate of your profits annually for the last three years?                                                              | 19. About fifty per cent.                                                                                      |
| 20. Amount of capital?                                                                                                                     | 20. About six hundred dollars.                                                                                 |
| 21. Average rate of wages?                                                                                                                 | 21. It ought to be \$12 per month.                                                                             |

## DOCUMENT 14.—No. 277.

*Jacob A. Sanders, Boot and Shoemaker, Amity, Washington County, West Pennsylvania*

| QUESTIONS.                                                                                                                 | ANSWERS.                                                         |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                  | 1. Washington county, Pennsylvania.                              |
| 2. Kind or description of the manufactory?                                                                                 | 2. Boot and shoe manufactory.                                    |
| 3. Capital invested in ground and buildings?                                                                               | 3. Eight hundred dollars.                                        |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                            | 4. One hundred and fifty dollars.                                |
| 10. Number of men, women, and children employed, and average wages of each class?                                          | 10. Four men at 50 cents per day; one woman at 25 cents per day. |
| 11. How many hours a day employed; and what portion of the year?                                                           | 11. Nine hours, the year round.                                  |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                  | 12. All sold at the manufactory.                                 |
| 14. Where are the manufactures consumed?                                                                                   | 14. In Washington and Greencastle.                               |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                   | 15. None.                                                        |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what? | 16. Sold for cash.                                               |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                       | 17. Shoes \$1 75; boots \$5.                                     |
| 19. What has been the rate of your profits, annually, for the last three years?                                            | 19. One hundred dollars per year.                                |
| 21. Average rate of wages?                                                                                                 | 21. About 44 cents per day.                                      |

JACOB A. SANDER.

## DOCUMENT 14.—No. 278.

*John R. Griffith's Boot and Shoe Manufactory, Washington County, West Pennsylvania*

| QUESTIONS.                                                                                      | ANSWERS.                                                           |
|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Washington county, Pennsylvania.                                |
| 2. Kind or description of the manufactory?                                                      | 2. Boots and shoes of leather; french and morocco shoes and boots. |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 4. \$5,761.                                                        |
| 5. Annual rate of profit on the capital invested?                                               | 5. \$648.                                                          |
| 7. Amount of articles annually manufactured since the establishment of the manufactory?         | 7. \$6,400.                                                        |

## DOCUMENT 14.—No. 278—Continued.

| QUESTIONS.                                                                                                          | ANSWERS.         |
|---------------------------------------------------------------------------------------------------------------------|------------------|
| 2. Whether the manufactures find a market at the manufactory? If not, how far they sent to a market?                | 12. At home.     |
| 3. Whether foreign articles of the like is enter into competition with them at a place of sale; and to what extent? | 13. They do not. |
| 0. Amount of capital?                                                                                               | 20. \$800.       |

JOHN R. GRIFFITH.

## DOCUMENT 14.—No. 279.

*Boot and Shoe Manufactory, Washington County, West Pennsylvania.*

| QUESTIONS.                                                                                  | ANSWERS.                                     |
|---------------------------------------------------------------------------------------------|----------------------------------------------|
| 1. State and county in which the manufactory is situated?                                   | 1. Washington county, State of Pennsylvania. |
| 2. Kind or description of the manufactory?                                                  | 2. Boots and shoes.                          |
| 3. Capital invested in ground and buildings?                                                | 3. Two hundred and fifty dollars.            |
| 4. Average amount in materials, and in cash the purchase of materials and payment of wages? | 4. Six hundred dollars.                      |
| 5. Annual rate of profit on the capital invested?                                           | 5. Two hundred dollars.                      |
| 0. Number of men, women, and children employed, and average wages of each class?            | 10. Five hands.                              |

ANDREW ALEXANDER.

## DOCUMENT 14.—No. 280.

*Manufactory of the Boot and Shoe Manufactories in Westmoreland County, West Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.                                                                                 |
|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. In Westmoreland county, and State of Pennsylvania.                                    |
| 2. Kind or description of the manufactory?                                                      | 2. Boot and shoe factories.                                                              |
| 3. Capital invested in ground and buildings?                                                    | 3. \$270.                                                                                |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 4. Average amount in materials, &c., throughout the county, is about \$18,270 per annum. |

DOCUMENT 14.—No. 280—Continued.

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. \$7,370.                                                                                                            |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                               | 6. There has been no material decrease for some time.                                                                  |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Articles annually manufactured amount to \$25,095. All kinds of boots and shoes quality and value, given in No. 17. |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. From 70 to 80 men, and from 15 to 20 boys; wages stated in No. 21.                                                 |
| 11. How many hours a day employed, and what portion of the year?                                                                      | 11. Average about 12 hours per day all the year.                                                                       |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. Generally at home, or in the distance of 40 miles.                                                                 |
| 14. Where are the manufactures consumed?                                                                                              | 14. Generally in Westmoreland county.                                                                                  |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 15. None.                                                                                                              |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 16. Generally on credit; the credit will average 1 year; barter for produce, kattle, &c. &c.                           |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                  | 17. Boots from \$3 50 to \$7; Monroes from \$2 to \$3; shoes \$2 to \$2 75.                                            |
| 19. What has been the rate of your profits, annually, for the last three years?                                                       | 19. Average fifteen per cent per annum.                                                                                |
| 20. Amount of capital?                                                                                                                | 20. Capital will amount to \$3,865.                                                                                    |
| 21. Average rate of wages?                                                                                                            | 21. Average 18 dollars per month in the towns, and from 8 to 10 dollars in the country.                                |

N. B. There are yet a few whom I have not seen.

ED. JOHNSTON.

DOCUMENT 14.—No. 281.

*Saddlery, Pittsburgh, Alleghany County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Pennsylvania, Alleghany Co. |
| 2. Kind or description of the manufactory?                                                                                            | 2. Saddlery and harness.                |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Fifteen thousand dollars.            |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Sixteen thousand dollars.            |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                               | 6. Competition at home.                 |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Seventeen thousand dollars.          |

## DOCUMENT 14.—No. 381.—Continued.

| QUESTIONS.                                                                                                                     | ANSWERS.                                           |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products? | 8. About five hundred dollars foreign productions. |
| 10. Number of men, women, and children employed, and average wages of each class?                                              | 10. 18 men at 35 dollars per month.                |
| 11. How many hours a day employed, and what portion of the year?                                                               | 11. From 11 to 12.                                 |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                      | 12. At Pittsburgh, and down the river.             |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?     | 13. They do not interfere with us.                 |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?     | 16. The best way we can sell them.                 |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                           | 17. The present.                                   |

JAMES HANSON.

## DOCUMENT 14.—No. 382.

*McChurkin & Beatty, Saddlers, Pittsburgh, Alleghany County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Pennsylvania, Alleghany county.                |
| 2. Kind or description of the manufactory?                                                                                            | 2. Saddlery, bridle, and harness.                          |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Seven thousand dollars.                                 |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Eight thousand five hundred dollars.                    |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Ten thousand seven hundred dollars.                     |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. About 2 or \$300 foreign, the balance domestic.         |
| 9. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                        | 9. I am not able to answer.                                |
| 10. Number of men, women and children employed, and average wages of each class?                                                      | 10. 11 men, 1 woman: men \$7 per week, women \$3 per week. |
| 11. How many hours a day employed; and what portion of the year?                                                                      | 11. About ten.                                             |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. In Pittsburgh, and the States of Ohio and Kentucky.    |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?            | 13. No foreign articles of the kind come to the market.    |



## DOCUMENT 14.—No. 283.

*John L. Greer's Saddlery, Pittsburgh, Alleghany County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                         |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Pennsylvania, Alleghany county.      |
| 2. Kind or description of the manufactory?                                                                                            | 2. Saddlery, bridles and harness.                |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Twelve thousand dollars.                      |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Eleven thousand five hundred dollars.         |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Say \$ 13,200.                                |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. The best part domestic; foreign trifling.     |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. Thirteen men at one dollar per day.          |
| 11. How many hours a day employed, and what portion of the year?                                                                      | 11. Say about eleven hours.                      |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. All sold in Pittsburgh.                      |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?            | 13. I believe not.                               |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 16. Cash, and a credit from three to six months. |

JOHN L. GREER.

## DOCUMENT 14.—No. 284.

*J. Burnside's Saddlery, Pittsburgh, Alleghany County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                             |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Pittsburgh, Pennsylvania State, Alleghany county. |
| 2. Kind or description of the manufactory?                                                                                            | 2. Saddles and bridles and harness.                  |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Five thousand dollars.                            |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages.                                       | 4. Six thousand dollars.                             |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Hard case to tell.                                |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                               | 6. Don't know.                                       |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. About seven thousand dollars.                     |

## DOCUMENT 14.—No. 284—Continued.

| QUESTIONS.                                                                                                                  | ANSWERS.                        |
|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 3. Quantity and value of different kinds raw materials used; distinguishing between foreign products and domestic products? | 8. All domestic.                |
| 4. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?              | 9. Can't tell.                  |
| 10. Number of men, women, and children employed, and average wages of each class?                                           | 10. Four men.                   |
| 11. How many hours a day employed, and at portion of the year?                                                              | 11. Six days in the week.       |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they sent to a market?                       | 12. At home.                    |
| 13. Whether foreign articles of the like class enter into competition with them at the place of sale, and to what extent?   | 13. No.                         |
| 14. Where are the manufactures consumed?                                                                                    | 14. Did answer this.            |
| 15. Whether the manufacture is sold by manufacturer for cash; and if on credit, what credit? if bartered, for what?         | 16. Cash, and a little credit.  |
| 17. Average rate of wages?                                                                                                  | 21. From \$1 to \$1.50 per day. |

## DOCUMENT 14.—No. 285.

*Lloyd & Mathews' Saddlery, Pittsburgh, Alleghany County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                        |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Pittsburgh, Alleghany county, Pennsylvania.  |
| 2. Kind or description of the manufactory?                                                                                            | 2. Saddles, bridles, and harness.               |
| 3. Capital invested in ground and buildings?                                                                                          | 3. About five thousand dollars.                 |
| 4. Average amount in materials, and in cash the purchase of materials and payment of wages?                                           | 4. About fifteen thousand dollars.              |
| 5. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Fifteen thousand to twenty thousand dollars. |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. From 16 to 20 men and boys.                 |
| 11. Average rate of wages?                                                                                                            | 21. From 33 to 35 dollars per month.            |

## DOCUMENT 14.—No. 286.

*Saddlery, Pittsburgh, Alleghany County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Alleghany county, State of Pennsylvania.               |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Saddlery and harness making.                           |
| 3. Capital invested in ground and buildings?                                                                                               | 3. Ten thousand dollars.                                  |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. Eight thousand five hundred dollars.                   |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. Can't tell, but know that I take more than I give out. |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. I believe about \$10,000.                              |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. Saddles, bridles, and harness.                         |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. 12 men: some make \$9 a week, and some \$6 a week.    |
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. From ten to twelve.                                   |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to market?                                    | 12. I sell all mine in Pittsburgh.                        |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the country and down the river.                    |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. Stick to Stevenson's tariff.                          |
| 21. Average rate of wages?                                                                                                                 | 21. I told you that higher up.                            |

J. SHEPPARD.

## DOCUMENT 14.—No. 287.

*Saddlery, Pittsburgh, Alleghany County, West Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.                                     |
|-------------------------------------------------------------------------------------------------|----------------------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Pennsylvania, Alleghany county.           |
| 2. Kind or description of the manufactory?                                                      | 2. Saddles, bridles, and harness.            |
| 3. Capital invested in ground and buildings?                                                    | 3. 10 thousand dollars.                      |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 4. 8,700 dollars.                            |
| 5. Annual rate of profit on the capital invested?                                               | 5. About a living profit counting bad debts. |

## DOCUMENT 14.—No. 287—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 6. Cause of the increase (or decrease, as the case may be) of profit?                                                                      | 6. Competition in our home market.                                  |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. Say 11,000 dollars.                                              |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. Chiefly domestic; very small amount foreign.                     |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. 10 men and 2 women; men \$1 25 per day, women 50 cents per day. |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. From 10 to 12.                                                  |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. At Pittsburgh, and down the Ohio.                               |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 13. Does not interfere with us.                                     |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. I believe not.                                                  |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Cash, and credit from three to twelve months.                   |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. We are doing very well as we are.                               |

C. WALTERS.

## DOCUMENT 14.—No. 288.

*Saddlery, Pittsburgh, Alleghany County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                  |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Pennsylvania, Alleghany co'y. |
| 2. Kind or description of the manufactory?                                                                                            | 2. Saddlery.                              |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Ten thousand dollars.                  |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. 16 thousand dollars per year.          |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. 90 thousand dollars.                   |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. 23 men.                               |
| 11. How many hours a day employed; and what portion of the year?                                                                      | 11. 11 hours per day.                     |

## DOCUMENT 14.—No. 288—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                               |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. At Pittsburgh, and down the river. |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                 | 13. They do not.                       |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Cash and short credits.            |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. The present.                       |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 19. Will not tell.                     |
| 20. Amount of capital?                                                                                                                     | 20. 8 thousand dollars.                |
| 21. Average rate of wages?                                                                                                                 | 21. One dollar per day.                |

WM. &amp; R. MACKEI.

## DOCUMENT 14.—No. 289.

*John Little's Saddle Manufactory, Pittsburgh, Alleghany County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                              |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Pennsylvania, Alleghany county.           |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Saddles, bridles, and harness.                     |
| 3. When established; and whether a joint stock concern?                                                                               | 3. In 1804.                                           |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                       | 4. About \$70,000.                                    |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. \$50,000.                                          |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. From 60 to \$70,000.                               |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?       | 10. Domestic generally.                               |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                       | 11. Cannot tell.                                      |
| 12. Number of men, women, and children employed, and average wages of each class?                                                     | 12. About 50 men, and 6 women; men per day.           |
| 13. How many hours a day employed; and what portion of the year?                                                                      | 13. Cannot tell.                                      |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 16. At Pittsburgh and the western country, generally. |

## DOCUMENT 14.—No. 289—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                             | ANSWERS.                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| 17. Whether foreign articles of the like kind enter into competition with them at the place of sale; and to what extent?                                                                                                                                                                                                               | 17. No interference.       |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, what credit? if bartered, for what?                                                                                                                                                                                                                | 20. Cash and short credit. |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                   | 22. The present duties.    |
| 25. What has been the rate of your profits, annually, for the last three years? and if it is a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore divided out annually? | 25. Will not tell.         |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                       | 27. Cannot tell.           |

## DOCUMENT 14.—No. 290.

*J. J. Sedwick's Saddlery, Butler County, West Pennsylvania.*

| QUESTIONS.                                                                                                              | ANSWERS.                                                      |
|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                               | 1. Pennsylvania, Butler county.                               |
| 2. Kind or description of the manufactory?                                                                              | 2. Saddle.                                                    |
| 3. Capital invested in ground and buildings?                                                                            | 3. Three hundred dollars.                                     |
| 4. Average amount in material, and in cash the purchase of materials and payment of wages?                              | 4. Nine hundred and ninety-four dollars and fifty cents.      |
| 5. Annual rate of profit on the capital invested?                                                                       | 5. Three hundred and thirty-one dollars and fifty cents.      |
| 10. Number of men, women, and children employed, and average wages of each class?                                       | 10. Three men, \$ 26 per month.                               |
| 11. How many hours a day employed; and at what portion of the year?                                                     | 11. Twelve hours a day all the year.                          |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they sent to a market?                   | 12. At the manufactory, and sent 40 miles.                    |
| 14. Where are the manufactures consumed?                                                                                | 14. At Butler, and Venango county, Pa.                        |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, what credit? if bartered, for what? | 16. Some for cash, some on credit, some bartered for leather. |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                    | 17. From six to twenty-five dollars.                          |
| 19. What has been the rate of your profits, annually, for the last three years?                                         | 19. Four hundred dollars.                                     |
| 20. Amount of capital?                                                                                                  | 20. Three hundred dollars.                                    |
| 21. Average rate of wages?                                                                                              | 21. Twenty-six dollars per month.                             |

## DOCUMENT 14.—No. 291.

*A. W. Wasson's Saddlery, Erie County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Pennsylvania, county of Erie.                                                 |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Saddles, harness, bridles, trunks.                                                     |
| 3. When established; and whether a joint stock concern?                                                                               | 3. Established three years.                                                               |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                       | 4. One thousand five hundred dollars.                                                     |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. About two thousand dollars.                                                            |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?       | 10. \$ 300 of hardware, about \$ 50 imported, and \$ 1,200 in leather of different kinds. |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 16. Find a market at the manufactory.                                                     |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?            | 17. None of any account.                                                                  |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                      | 24. Not any.                                                                              |
| 40. Average rate of wages?                                                                                                            | 40. Fifteen dollars per month.                                                            |

A. W. WASSON

## DOCUMENT 14.—No. 292.

*John Lantz's Saddlery, Erie County, West Pennsylvania.*

| QUESTIONS.                                                                                                                     | ANSWERS.                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                      | 1. Situate in Erie county, Pennsylvania.                                                |
| 2. Kind or description of the manufactory?                                                                                     | 2. A saddle and harness factory.                                                        |
| 3. Capital invested in ground and buildings?                                                                                   | 3. Amount of capital employed the last year \$ 1,650.                                   |
| 5. Annual rate of profit on the capital invested?                                                                              | 5. Rate of profit on capital employed 2 per cent.                                       |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products? | 8. I should think that seven-eighths of the materials were of American production.      |
| 10. Number of men, women, and children employed, and average wages of each class?                                              | 10. Three men employed the whole year, average wages at \$ 22 per month.                |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                      | 12. The manufactures find a market at the manufactory.                                  |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?     | 13. Foreign articles of the like kinds do not enter into the domestic consumption here. |

JOHN LANTZ

## DOCUMENT 14.—No. 293.

*Hood and Stoops' Saddlery, Greene County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Pennsylvania, Greene county.                                                                        |
| 2. Kind or description of the manufactory?                                                                                            | 2. Saddlery.                                                                                           |
| 3. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 3. \$1,000.                                                                                            |
| 4. Annual rate of profit on the capital invested?                                                                                     | 4. 15 per cent.                                                                                        |
| 5. Cause of the increase (or decrease, as the case may be) of profit?                                                                 | 5. Profit decreased from competition in business.                                                      |
| 6. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 6. Manufactured \$1,800 worth last year.                                                               |
| 7. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 7. \$800.                                                                                              |
| 8. Number of men, women, and children employed, and average wages of each class?                                                      | 8. 10. 3 men and 2 boys; average wages of men \$16 each per month.                                     |
| 9. How many hours a day employed; and what portion of the year?                                                                       | 9. 11. 10 hours per day the year round.                                                                |
| 10. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 10. 12. Sent to Ohio and Virginia.                                                                     |
| 11. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?            | 11. 13. None enter into competition.                                                                   |
| 12. Where are the manufactures consumed?                                                                                              | 12. 14. In Ohio and Virginia principally.                                                              |
| 13. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 13. 15. None.                                                                                          |
| 14. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 14. 16. Part cash; part 9 months' credit; part trade for sugar, linen, and grain, made in the country. |
| 15. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                  | 15. 17. Men's saddles from \$7 to \$15.                                                                |
| 16. What has been the rate of your profits annually for the last three years?                                                         | 16. 19. 20 per cent.                                                                                   |
| 17. Amount of capital?                                                                                                                | 17. 20. \$1,200.                                                                                       |
| 18. Average rate of wages?                                                                                                            | 18. 21. \$16 per month.                                                                                |

## DOCUMENT 14.—No. 294.

*John Taylor's Saddlery, Greene County, West Pennsylvania.*

| QUESTIONS.                                                | ANSWERS.                        |
|-----------------------------------------------------------|---------------------------------|
| 1. State and county in which the manufactory is situated? | 1. Greene county, Pennsylvania. |
| 2. Kind or description of the manufactory?                | 2. Saddlery.                    |



DOCUMENT 14.—No. 294—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 3. Capital invested in ground and buildings?                                                                                               | 3. \$500.                                                                                  |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. About \$600.                                                                            |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. About \$300.                                                                            |
| 6. Cause of the increase (or decrease, as the case may be,) of profit?                                                                     | 6. Rather increasing, in consequence of the population.                                    |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. Kept no account of such manufactory.                                                    |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. Cannot tell the quantity of each; use foreign materials or manufactory.                 |
| 9. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                             | 9. Never bought any foreign or imported materials.                                         |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. Only 2 apprentices now in my factory.                                                  |
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. Work all hours in the day according to ancient custom.                                 |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. Find a market at the factory for all.                                                  |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 13. No foreign articles of the kind and value bought here.                                 |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the place where manufactured, and parts about.                                      |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. None from me.                                                                          |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Sell on credit, and take cash and produce as can be agreed on.                         |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Little or no difference in price for length of time; if any, the prices are declining. |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. No imported articles of my manufacture in market here.                                 |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 19. About 25 per cent.                                                                     |
| 20. Amount of capital?                                                                                                                     | 20. Answered in 4th query.                                                                 |
| 21. Average rate of wages?                                                                                                                 | 21. Hire but few; good hands at \$25 per month.                                            |

## DOCUMENT 14.—No. 295.

*Saddlery, Washington County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. West Middletown, Washington county, Pennsylvania.                                                                                                                                                                         |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Saddlery.                                                                                                                                                                                                                 |
| 3. Capital invested in ground and buildings?                                                                                               | 3. \$100.                                                                                                                                                                                                                    |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. How much cash is not a fair question.                                                                                                                                                                                     |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. The rate of profit upon the capital is 40 per cent.                                                                                                                                                                       |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. The value of the manufactured articles, \$1,500.                                                                                                                                                                          |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. Materials are domestic.                                                                                                                                                                                                   |
| 10. Number of men, women, and children employed; and average wages of each class?                                                          | 10. 4 persons employed at the rate of 50 cents per day.                                                                                                                                                                      |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Credit 3, 6, 9, and 12 months; sometimes forgive the debt; barter for every thing, such as oats, straw, corn, rye, potatoes, buckwheat, dearborns, gigs, carriage-horses, and many other things too tedious now to name. |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. No reduction of duty.                                                                                                                                                                                                    |
| 19. What has been the rate of your profits annually for the last three years?                                                              | 19. \$400.                                                                                                                                                                                                                   |
| 20. Amount of capital?                                                                                                                     | 20. \$1,000.                                                                                                                                                                                                                 |

WM. W. McNULTY.

## DOCUMENT 14.—No. 296.

*William Gunning, Saddler, Buffalo, Washington County, West Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.              |
|-------------------------------------------------------------------------------------------------|-----------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Washington county. |
| 2. Kind or description of the manufactory?                                                      | 2. Saddlery.          |
| 3. Capital invested in ground and buildings?                                                    | 3. \$400.             |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 4. \$200.             |
| 5. Annual rate of profit on the capital invested?                                               | 5. \$66.              |

## DOCUMENT 14.—No. 296—Continued.

| QUESTIONS.                                                                         | ANSWERS.                 |
|------------------------------------------------------------------------------------|--------------------------|
| 10. Number of men, women, and children, employed, and average wages of each class? | 10. One person employed. |
| 19. What has been the rate of your profits annually for the last three years?      | 19. \$70.                |
| 20. Amount of capital?                                                             | 20. \$200.               |

WM. GUNNING.

## DOCUMENT 14.—No. 297.

*Thomas Wilson, Saddler, Wilmington, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Mercer county, Pennsylvania.                                                                        |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Saddles and bridles, &c. &c.                                                                        |
| 3. Capital invested in ground and buildings?                                                                                               | 3. \$150.                                                                                              |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. \$800.                                                                                              |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. From 25 to 37 per cent.                                                                             |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. About \$300 worth of domestic leather, &c., and about \$5 worth of foreign silk.                    |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. One man and two boys; the man at \$180 per year; the boys at \$96 each per year.                   |
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. Ten hours per day, the whole year.                                                                 |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. At the manufactory.                                                                                |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the vicinity of the manufactory.                                                                |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                  | 15. Not exported.                                                                                      |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Half on a credit for six months, & other half bartered for the produce of the surrounding country. |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. A high duty.                                                                                       |
| 20. Amount of capital?                                                                                                                     | 20. \$500.                                                                                             |

## DOCUMENT 14.—No. 298.

*Wm. Dickson, Saddler, Newcastle, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                | ANSWERS.                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| State and county in which the manufactory is situated?                                                                                    | 1. Mercer county, Pennsylvania.                                                                                      |
| Kind or description of the manufactory?                                                                                                   | 2. Saddle and bridle manufactory.                                                                                    |
| Capital invested in ground and build-                                                                                                     | 3. \$150.                                                                                                            |
| Average amount in materials, and in for the purchase of materials and pay-                                                                | 4. \$800.                                                                                                            |
| of wages?                                                                                                                                 | 5. 25 per cent.                                                                                                      |
| Annual rate of profit on the capital in-                                                                                                  | 6. A decrease of profit is often occasioned by merchants bringing similar articles from the Atlantic cities.         |
| vested?                                                                                                                                   | 8. About \$783 of domestic; about \$17 of foreign silk and plush.                                                    |
| Cause of the increase (or decrease, as case may be) of profit?                                                                            | 10. One man and two boys; the man at \$17 per month; the boy at \$8 per month.                                       |
| Quantity and value of different kinds of materials used; distinguishing between foreign products and domestic products?                   | 11. Ten hours, the whole year.                                                                                       |
| 1. Number of men, women, and children employed, and average wages of each class?                                                          | 12. At the manufactory.                                                                                              |
| 2. How many hours a day employed, and portion of the year?                                                                                | 13. They do to a considerable extent.                                                                                |
| 3. Whether the manufactures find a market at the manufactory? If not, how far are sent to a market?                                       | 14. In the vicinity of the manufactory.                                                                              |
| 4. Whether foreign articles of the like kind enter into competition with them at place of sale; and to what extent?                       | 16. One half for cash; the remaining part is sold on a credit of six months, and produce of the surrounding country. |
| 5. Where are the manufactures consumed?                                                                                                   | 18. A high duty.                                                                                                     |
| 6. Whether the manufacture is sold by manufacturer for cash? and if on credit, what credit? if bartered, for what?                        | 20. About \$300.                                                                                                     |
| 7. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? |                                                                                                                      |
| 8. Amount of capital?                                                                                                                     |                                                                                                                      |

## DOCUMENT 14.—No. 299.

*Samuel Rogers, Saddler, New Bedford, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                 | ANSWERS.                          |
|--------------------------------------------------------------------------------------------|-----------------------------------|
| 1. State and county in which the manufactory is situated?                                  | 1. Mercer county, Pennsylvania.   |
| 2. Kind or description of the manufactory?                                                 | 2. Saddles, bridles, harness, &c. |
| 3. Capital invested in ground and buildings?                                               | 3. \$100.                         |
| 4. Average amount in materials, and in for the purchase of materials and payment of wages? | 4. \$600.                         |

## DOCUMENT 14.—No. 299—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. About 33 per cent.                                                                                                       |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. About \$800 worth.                                                                                                       |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. \$300 worth of domestic products; about \$5 of foreign silk.                                                             |
| 10. Number of men, women and children employed, and average wages of each class?                                                           | 10. One man, \$150 per year.                                                                                                |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. Ten hours, the whole year.                                                                                              |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. At the manufactory.                                                                                                     |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the vicinity of the manufactory.                                                                                     |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                  | 15. Not exported.                                                                                                           |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Three-fourths on a credit of six months, and one-fourth bartered for stock for the manufactory and for country produce. |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. A high duty.                                                                                                            |

## DOCUMENT 14.—No. 300.

*Saddlery, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Mercer county, Pennsylvania.                                                     |
| 2. Kind or description of the manufactory?                                                                                            | 2. Saddles, bridles, &c. &c.                                                        |
| 3. Capital invested in ground and buildings?                                                                                          | 3. One hundred dollars.                                                             |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Six hundred dollars.                                                             |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. About thirty-three per cent.                                                     |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. About eight hundred dollars' worth.                                              |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?        | 8. Three hundred dollars' worth domestic products; about 5 dollars of foreign silk. |

## DOCUMENT 14.—No. 300—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. 1 man at 150 dollars per year.                                                                                 |
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. 10 hours the whole year.                                                                                       |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. At the manufactory.                                                                                            |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the vicinity of the manufactory.                                                                            |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                  | 15. Not exported.                                                                                                  |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Three-fourths on a credit of 6 months; one-quarter bartered for stock for the manufactory and country produce. |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. A high duty.                                                                                                   |

BOOK &amp; EATON.

## DOCUMENT 14.—No. 301.

*Summary of the Saddle Manufactories, Westmoreland County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. In Westmoreland county, and State of Pennsylvania.                                                                                          |
| 2. Kind or description of the manufactory?                                                                                            | 2. Saddle manufactories.                                                                                                                       |
| 3. Capital invested in ground and buildings?                                                                                          | 3. \$1,680.                                                                                                                                    |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. \$11,560 per annum.                                                                                                                         |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. \$3,625.                                                                                                                                    |
| 6. Cause of the increase (or decrease, as the case may be) of profit?                                                                 | 6. No material increase or decrease.                                                                                                           |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. \$13,175; all kinds and descriptions; value and quality given in No. 17.                                                                    |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. From 16 to 20 men at 20 dollars per month, and the same number of boys who receive no other compensation than their clothing and boarding. |
| 11. How many hours a day employed; and what portion of the year?                                                                      | 11. Average 11 hours per day all the year.                                                                                                     |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. At the manufactory.                                                                                                                        |

## DOCUMENT 14.—No. 301—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                 | 13. No.                                                                     |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In Westmoreland county.                                                 |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. None.                                                                   |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. Generally on credit, which is one year; barter for produce and leather. |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Men's saddles from \$6 to \$30; women's saddles from \$16 to \$25.      |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. Unable to answer.                                                       |
| 19. What has been the rate of your profits, annually, for the last three years?                                                            | 19. Twenty-five per cent. per annum.                                        |
| 20. Amount of capital?                                                                                                                     | 20. \$5,970.                                                                |
| 21. Average rate of wages?                                                                                                                 | 21. Average wages \$15 per month.                                           |

ED. JOHNSTON.

## DOCUMENT 14.—No. 302.

*Isaac McConnell's Hat Manufactory, Armstrong County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Pennsylvania, Armstrong county.                                     |
| 2. Kind or description of the manufactory?                                                                                            | 2. Hat manufactory.                                                             |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Five hundred dollars.                                                        |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Six hundred dollars.                                                         |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Fifty per cent.                                                              |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Two hundred hats; 25 wool hats at 50 cents, and 175 fine at from \$3 to \$8. |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. Three men at \$26 per month each.                                           |
| 11. How many hours a day employed, and what portion of the year?                                                                      | 11. Twelve hours per day, and 11 months of the year.                            |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. At the manufactory.                                                         |

## DOCUMENT 14.—No. 302—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                    |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 13. Whether foreign articles of the like kind enter into competition with them at the place of sale, and to what extent?                   | 13. They do not.            |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In Armstrong county.    |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                  | 15. None exported.          |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, what credit? if bartered, for what?                    | 16. Cash.                   |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Same as above.          |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. None.                   |
| 19. What has been the rate of your profits, usually, for the last three years?                                                             | 19. Forty-five per cent.    |
| 20. Amount of capital?                                                                                                                     | 20. Eleven hundred dollars. |
| 21. Average rate of wages?                                                                                                                 | 21. Twenty-six dollars.     |

Very respectfully,

ISAAC McCONNELL.

## DOCUMENT 14.—No. 303.

*Shivelay & McCleery's Hat Manufactory, Beaver County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                                                                                                                                                                          | ANSWERS.                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                           | 1. Beaver county, State of Pennsylvania.                                              |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                | 2. Hat manufactory.                                                                   |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                             | 3. In 1823; a partnership concern.                                                    |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                     | 4. \$ 1,500 in ground and buildings.                                                  |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                     | 5. \$ 1,400, perhaps nearly \$ 1,500.                                                 |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which borrowed, after providing for the interest on it; and the rate of the profit upon that portion which is not borrowed? | 6. About 18 per cent.                                                                 |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                             | 7. Profits nearly stationary.                                                         |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                      | 8. Saddle-making and tanning, supposed to realize 20 per cent. on the entire capital. |



| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                                                      | 9. About \$ 10,000 worth annually.                                                                                    |
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                                                                                                                                                                                                            | 10. Furs \$ 2,000; trimmings, silk, and rocco \$1,000; all, or nearly so, home produce.                               |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                                                            | 11. Unknown.                                                                                                          |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                                                          | 12. Eight men and two women; <i>franc</i> each \$ 1 per day, the latter 37½ cents per day each.                       |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                                                           | 13. Average eight hours per day.                                                                                      |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                                                           | 14. Average the same wages throughout this State.                                                                     |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. None.                                                                                                             |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. Principally sold at home; none farther than 50 miles from the place of manufacture.                               |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                                                                 | 17. Supposed to be no competition.                                                                                    |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. Most of them where sold.                                                                                          |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                                                                   | 19. Supposed to be none.                                                                                              |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. One-quarter cash, other <i>three quarters</i> credit of three months, and <i>better</i> for agricultural produce. |
| 21. Whether the cost of the manufactured article (to the manufacturer,) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                               | 21. Remained about stationary for a year past; prior to then cost was somewhat less.                                  |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. About the same prices for the last six years as now, viz. from \$24 to \$80 per dozen.                            |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. A duty amounting almost to prohibition.                                                                           |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. Do not know.                                                                                                      |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Perhaps 18 per cent.; dividend to each partner nine per cent.                                                     |

## DOCUMENT 14.—No. 303—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                          | ANSWERS.                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                        | 26. About $\frac{1}{3}$ , wages $\frac{1}{3}$ , profits about 1-6.                       |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                    | 27. None; other productions, including raw materials for hatting, about \$2,000.         |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                | 28. Unknown.                                                                             |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12 $\frac{1}{2}$ per cent, with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. It would.                                                                            |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                      | 30. In agriculture.                                                                      |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to twelve and a half per cent.?                                                                                                         | 31. Supposed to be none.                                                                 |
| 32. Are not the manufactures of salt and on remote from the points of importation, it of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                                            | 32. Partially so; cannot long remain so from the rapid advance of internal improvements. |
| 33. Amount of capital; and what proportion of borrowed capital bears to that which is all?                                                                                                                                                                                          | 33. Nearly \$3,000 of real capital; none borrowed or fictitious.                         |

Respectfully,

SHIVELAY &amp; McCLUREY.

## DOCUMENT 14.—No. 304.

*B. F. Gilmore's Hat Manufactory, Butler County, West Pennsylvania.*

| QUESTIONS.                                                                                 | ANSWERS.                        |
|--------------------------------------------------------------------------------------------|---------------------------------|
| 1. State and county in which the manufactory is situated?                                  | 1. Pennsylvania, Butler county. |
| 2. Kind or description of the manufactory?                                                 | 2. Hat.                         |
| 3. Capital invested in ground and building?                                                | 3. \$700.                       |
| 4. Average amount in materials, and in for the purchase of materials and payment of wages? | 4. \$400.                       |
| 5. Annual rate of profit on the capital invested?                                          | 5. \$600.                       |

## DOCUMENT 14.—No. 304.—Continued.

| QUESTIONS.                                                                                                                 | ANSWERS.                                                             |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| 10. Number of men, women, and children employed, and average wages of each class?                                          | 10. 2 men; \$30 per month, <i>annually</i> .                         |
| 11. How many hours a day employed, and what portion of the year?                                                           | 11. 9 hours a day, all the year.                                     |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                  | 12. At the manufactory.                                              |
| 14. Where are the manufactures consumed?                                                                                   | 14. Butler county, Pennsylvania.                                     |
| 15. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                  | 15. No.                                                              |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what? | 16. Some for cash, some on credit, and bartered for country produce. |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                       | 17. From 50 cents to \$3.                                            |
| 19. What has been the rate of your profits, annually, for the last three years?                                            | 19. \$200.                                                           |
| 20. Amount of capital?                                                                                                     | 20. \$100.                                                           |
| 21. Average rate of wages?                                                                                                 | 21. \$30 per month.                                                  |

## DOCUMENT 14.—No. 305.

*C. Buhl's Hat Manufactory, Butler County, West Pennsylvania.*

| QUESTIONS.                                                                                                                     | ANSWERS.                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                      | 1. Butler county, Pennsylvania.                                                                   |
| 2. Kind or description of the manufactory?                                                                                     | 2. Hats.                                                                                          |
| 3. Capital invested in ground and buildings?                                                                                   | 3. \$400.                                                                                         |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                | 4. Wool, 2,000 lbs.; fur, about 400 lbs. wages, about \$400, part payment in cash total, \$1,600. |
| 5. Annual rate of profit on the capital invested?                                                                              | 5. Clear profit about \$200.                                                                      |
| 6. Cause of the increase (or decrease, as the case may be,) of profit?                                                         | 6. Decreasing on account of change of head dress—men wearing caps.                                |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products? | 8. 2,000 lbs. wool, \$400; fur about \$100 foreign furs.                                          |
| 10. Number of men, women, and children employed, and average wages of each class?                                              | 10. From 5 to 6 men; 1 woman.                                                                     |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to market?                        | 12. $\frac{3}{4}$ sent down the river; $\frac{1}{4}$ sold at home.                                |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?     | 16. Sold for cash about $\frac{1}{2}$ ; $\frac{3}{4}$ for barter.                                 |

## DOCUMENT 14.—No. 308—Continued.

| QUESTIONS.                 | ANSWERS.                                                 |
|----------------------------|----------------------------------------------------------|
| 20. Amount of capital?     | 20. About \$1,600.                                       |
| 21. Average rate of wages? | 21. A man's earnings, per month, besides boarding, \$12. |

## DOCUMENT 14.—No. 306.

*Lot Lewis's Woollen Manufactory, Crawford County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                  | 1. Crawford county, Pennsylvania.                                   |
| 2. Kind or description of the manufactory?                                                                                                 | 2. Woollen manufactory.                                             |
| 3. Capital invested in ground and buildings?                                                                                               | 3. \$1,500.                                                         |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                            | 4. \$200.                                                           |
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. 33 per cent.                                                     |
| 6. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                    | 6. Stationary.                                                      |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. 4,500 yards, $\frac{3}{4}$ cloth and $\frac{1}{4}$ flannel.      |
| 8. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?             | 8. Dye stuffs, foreign, \$25; domestics, copperas, soap, &c., \$25. |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. 2 men, \$17 per month.                                          |
| 11. How many hours a day employed; and what portion of the year?                                                                           | 11. 14 hours; 7 months of the year.                                 |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the vicinity.                                                |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. None exported.                                                  |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Cloth, \$1; flannel, 75 cents.                                  |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. Duties should not be reduced.                                   |

## DOCUMENT 14.—No. 307.

*Clinton George's Hat Factory, Erie County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                            |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Erie county, State of Pennsylvania.              |
| 2. Kind or description of the manufactory?                                                                                            | 2. A hat factory.                                   |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Capital invested in ground and buildings \$1000. |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Say about \$2,000.                               |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Articles manufactured per year \$1,000.          |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. Men employed, four per year.                    |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. Market at the factory.                          |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?            | 13. There is no competition in the foreign article. |
| 14. Where are the manufactures consumed?                                                                                              | 14. Within the county.                              |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 15. None.                                           |

CLINTON GEORGE

## DOCUMENT 14.—No. 308.

*Mr. P. K. Rockwell's Hat Manufactory, Erie County, West Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.                               |
|-------------------------------------------------------------------------------------------------|----------------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Pennsylvania, Erie county.          |
| 2. Kind or description of the manufactory?                                                      | 2. Hat manufactory.                    |
| 3. Capital invested in ground and buildings?                                                    | 3. Eight hundred dollars.              |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 4. Two thousand seven hundred dollars. |
| 10. Number of men, women, and children employed, and average wages of each class?               | 10. Three men at \$24 per month.       |
| 14. Where are the manufactures consumed?                                                        | 14. At home.                           |

P. K. ROCKWELL.

## DOCUMENT 14.—No. 309.

*Edward Parkinson's Hat Manufactory, Greene County, West Pennsylvania.*

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| State and county in which the manufactory is situated?                                                                                     | 1. Greene county, Pennsylvania.                                                                                |
| Kind or description of the manufactory?                                                                                                    | 2. Hat manufactory.                                                                                            |
| Capital invested in ground and building?                                                                                                   | 3. One thousand five hundred dollars.                                                                          |
| Average amount in materials, and in for the purchase of materials and payment of wages?                                                    | 4. One thousand four hundred dollars.                                                                          |
| Annual rate of profit on the capital invested?                                                                                             | 5. Six hundred dollars.                                                                                        |
| Cause of the increase (or decrease, as case may be,) of profit?                                                                            | 6. No cause of increase or decrease of the profits.                                                            |
| Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?         | 7. 600 fur hats, 500 of wool; fur hats at \$3 each, 62½ cents for wool hats.                                   |
| Quantity and value of different kinds of materials used; distinguishing between foreign products and domestic products?                    | 8. See 4th query for this; say one-fourth of the materials imported.                                           |
| Cost in the United States of similar articles of manufactory imported from abroad, from what countries?                                    | 9. Cannot answer.                                                                                              |
| 10. Number of men, women, and children employed, and average wages of each class?                                                          | 10. Four men, no women or children; about \$5 per week each.                                                   |
| 11. How many hours a day employed; and a portion of the year?                                                                              | 11. All day throughout the year.                                                                               |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they sent to a market?                                      | 12. Half sold at the manufactory, half taken to another State.                                                 |
| 13. Whether foreign articles of the like kind enter into competition with them at the place of sale; and to what extent?                   | 13. No foreign competition in my line.                                                                         |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In Pennsylvania, Virginia, and Ohio.                                                                       |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. None of my manufacture.                                                                                    |
| 16. Whether the manufacture is sold by manufacturer for cash? and if on credit, what credit? if bartered, for what?                        | 16. Mostly a credit of six to 12 months, trade and cash, as agreed for; trade the produce of the neighborhood. |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                       | 17. Answered in query 7th.                                                                                     |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. None imported here.                                                                                        |
| 19. What has been the rate of your production, annually, for the last three years?                                                         | 19. Answered in 7th query.                                                                                     |
| 20. Amount of capital?                                                                                                                     | 20. Answered—but say \$1000.                                                                                   |
| 21. Average rate of wages?                                                                                                                 | 21. About \$5 per week for each hand.                                                                          |

## DOCUMENT 14.—No. 310.

*Hat Manufactory, Greene County, West Pennsylvania.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Pennsylvania, Greene county.                                                         |
| 2. Kind or description of the manufactory?                                                                                            | 2. Hat manufactory.                                                                     |
| 3. Capital invested in ground and buildings?                                                                                          | 3. Eight hundred dollars.                                                               |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 4. Six hundred dollars.                                                                 |
| 5. Annual rate of profit on the capital invested?                                                                                     | 5. Fifteen per cent.                                                                    |
| 6. Cause of the increase (or decrease, as the case may be) of profit?                                                                 | 6. Decreased from competition.                                                          |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 7. Eight hundred dollars' worth, principally rosam hats.                                |
| 8. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?        | 8. \$15 imported furs; 100 dollars' worth of wool and fur, domestic.                    |
| 10. Number of men, women, and children employed, and average wages of each class?                                                     | 10. Three men; wages about 175 dollars a year each.                                     |
| 11. How many hours a day employed, and what portion of the year?                                                                      | 11. Ten hours per day.                                                                  |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                             | 12. Sold at the manufactory.                                                            |
| 13. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?            | 13. They do, but extent not known.                                                      |
| 14. Where are the manufactures consumed?                                                                                              | 14. In Greene county.                                                                   |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 15. None exported.                                                                      |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 16. Generally on credit nine months.                                                    |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                  | 17. Seven years ago hats brought 4 dollars, which now bring no more than three dollars. |
| 19. What has been the rate of your profits, annually, for the last three years?                                                       | 19. Sixteen per cent.                                                                   |
| 21. Average rate of wages?                                                                                                            | 21. 175 dollars per year.                                                               |

WM. BATZELL

## DOCUMENT 14.—No. 311.

*Hat Manufactory, Greene County, West Pennsylvania.*

| QUESTIONS.                                                | ANSWERS.                        |
|-----------------------------------------------------------|---------------------------------|
| 1. State and county in which the manufactory is situated? | 1. Greene county, Pennsylvania. |
| 2. Kind or description of the manufactory?                | 2. Hat manufactory.             |

## DOCUMENT 14.—No. 311.—Continued.

| QUESTIONS.                                                                                                                        | ANSWERS.                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Capital invested in ground and build-                                                                                             | 3. Four hundred dollars.                                                                               |
| Average amount in materials, and in for the purchase of materials and pay- of wages?                                              | 4. Six hundred dollars.                                                                                |
| Annual rate of profit on the capital in- v-est?                                                                                   | 5. Fifteen per cent.                                                                                   |
| Cause of the increase, (or decrease, as case may be,) of profit?                                                                  | 6. Decrease is fifteen per cent.                                                                       |
| Amount of articles annually manufac- tured since the establishment of the manu- factory? Description, quality, and value of kind? | 7. Two hundred fur hats, and 556 wool hats; fur hats at \$3 each; wool at \$7 per doz.                 |
| Quantity and value of different kinds of materials used; distinguishing between foreign products and domestic products?           | 8. Five hundred dollars, domestic pro- ductions.                                                       |
| 9. Number of men, women, and children employed, and average wages of each class?                                                  | 10. Three men and one woman.                                                                           |
| 10. How many hours a day employed; and portion of the year?                                                                       | 11. From the 1st March to the 1st of Octo- ber, 10 hours per day, and the balance of the year 8 hours. |
| 11. Whether the manufactures find a mar- ket at the manufactory? If not, how far they sent to a market?                           | 12. At the manufactory and other adjoin- ing States.                                                   |
| 12. Where are the manufactures consum- ed?                                                                                        | 14. In the neighborhood.                                                                               |
| 13. Whether any of the manufactures are exported to foreign countries? and if so, where?                                          | 15. Not any exported to foreign coun- tries.                                                           |
| 14. Whether the manufacture is sold by manufacturer for cash? and if on credit, what credit? if bartered, for what?               | 16. Part cash, and part wool, and the balance fur; credit for cash, six months.                        |
| 15. The prices at which the manufactures are sold by the manufacturer since establishment?                                        | 17. Fur hats from 3 to 6 dollars; wool hats from 75 cents to 1 dollar retail.                          |
| 16. Amount of capital?                                                                                                            | 20. Twelve hundred dollars.                                                                            |
| 17. Average rate of wages?                                                                                                        | 21. Two hundred and eighty dollars, or six dollars per week for good hands.                            |

HUGH SWAN.

## DOCUMENT 14.—No. 312.

*Hat Manufactory, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                   | ANSWERS.                              |
|----------------------------------------------------------------------------------------------|---------------------------------------|
| 1. State and county in which the manufac- tory is situated?                                  | 1. Mercer county, Pennsylvania.       |
| 2. Kind or description of the manufactory?                                                   | 2. Manufactory of hats.               |
| 3. Capital invested in ground and build- ing?                                                | 3. Fifty dollars.                     |
| 4. Average amount in materials, and in for the purchase of materials and pay- ment of wages? | 4. One thousand four hundred dollars. |



## DOCUMENT 14.—No. 312—Continued.

| QUESTIONS.                                                                                                                                 | ANSWERS.                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 5. Annual rate of profit on the capital invested?                                                                                          | 5. Twenty-five per cent.                                                                    |
| 7. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?      | 7. Wool hats 75 cents to \$1; water proof furs from \$3 to \$6.                             |
| 8. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?             | 8. About \$1,000 worth; about \$300 of which is foreign furs and dye stuff, \$700 domestic. |
| 10. Number of men, women, and children, employed, and average wages of each class?                                                         | 10. One man and one boy; the man at \$25 per year, the boy at \$150.                        |
| 11. How many hours a day employed, and what portion of the year?                                                                           | 11. Ten hours the whole year.                                                               |
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 12. At the manufactory.                                                                     |
| 14. Where are the manufactures consumed?                                                                                                   | 14. In the vicinity.                                                                        |
| 15. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                   | 15. Not exported.                                                                           |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                 | 16. One-fourth for cash, three-fourths on a credit of six months, to a year.                |
| 18. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 18. The present duty is sufficient.                                                         |
| 20. Amount of capital?                                                                                                                     | 20. Six hundred dollars.                                                                    |

## DOCUMENT 14.—No. 313.

*Hat Manufactory, Mercer County, West Pennsylvania.*

| QUESTIONS.                                                                                                                    | ANSWERS.                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                     | 1. Mercer county, Pennsylvania.                                                                       |
| 2. Kind or description of the manufactory?                                                                                    | 2. Hat manufactory.                                                                                   |
| 3. Capital invested in ground and buildings?                                                                                  | 3. One hundred dollars.                                                                               |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages?                               | 4. Three hundred and ninety dollars.                                                                  |
| 5. Annual rate of profit on the capital invested?                                                                             | 5. Twenty-five per cent.                                                                              |
| 8. Quantity and value of different kinds of raw material used; distinguishing between foreign products and domestic products? | 8. \$150; of which \$25 are foreign stuffs and furs, and of domestic furs and wool about \$125 worth. |
| 10. Number of men, women, and children, employed; and average wages of each class?                                            | 10. Two men; wages \$240 per year.                                                                    |
| 11. How many hours a day employed, and what portion of the year?                                                              | 11. Ten hours the whole year.                                                                         |

## DOCUMENT 14.—No. 313—Continued.

| QUESTIONS.                                                                                                                 | ANSWERS.                                                                    |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 12. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                  | 12. About one-half at the manufactory, and one-half sent about fifty miles. |
| 16. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what? | 16. Part on credit, part for cash, and part bartered for furs and wool.     |
| 17. The prices at which the manufactures have been sold by the manufacturer since the establishment?                       | 17. Wool hats at \$6 per dozen, fur hats at \$36 per dozen.                 |
| 21. Average rate of wages?                                                                                                 | 21. Fourteen dollars per month for a man.                                   |

## DOCUMENT 14.—No. 314.

*Joseph Justice, Hat Manufacturer, Newcastle, Mercer County, West Pennsylvania.*

Answer to question 1. Mercer county, Pennsylvania.

2. Hat manufactory.
3. \$350.
4. \$900.
5. 25 per cent.
8. About \$100 of foreign furs and dye stuffs; and about \$300 of domestic furs, wool, dye stuffs, &c. &c.
10. Two men and one boy; the men at \$200 each per year, and the boy at \$100.
11. Ten hours, the whole year.
12. Two-thirds at the manufactory; one-third between forty and fifty miles.
16. Half for cash; the other half bartered for stock for the manufactory and the produce of the surrounding country.
17. Wool hats at \$6 50 per dozen; fur hats at from 30 to \$42 per dozen.
20. \$650.

## DOCUMENT 14.—No. 315.

*White McMillen, Hat Manufacturer, Newcastle, Mercer County, West Pennsylvania.*

Answer to question 1. Mercer county, Pennsylvania.

2. Hat manufactory.
3. \$400.
4. \$860.
5. 25 per cent.
8. \$500 in the aggregate; of which \$100 worth is foreign dye stuffs and furs, and \$400 of domestic furs, &c.
10. Two men and one boy; the man at \$20 per month, and the boy at \$8 per month.
11. Ten hours, the whole year.
12. About three-fourths at the manufactory, and one-fourth sent about fifty miles.
15. Not exported.
16. Half is sold for cash, and half is bartered for stock to carry on the manufactory.
17. Wool hats at \$6 per dozen; fur hats at from 30 to \$36 per dozen.
20. \$600.
21. \$20 per month for a man.

## DOCUMENT 14.—No. 316.

*William Cox, Hat Manufacturer, Newcastle, Mercer County, West Pennsylvania.*

Answer to question 1. Mercer county, Pennsylvania.

2. Hat manufactory.
3. \$350.
4. \$900.
5. 25 per cent.
8. About \$190 of foreign furs and dye stuffs; and about \$300 of domestic furs, wool, dye stuffs, &c.
10. Two men and one boy; the men at \$22, each, per month, and the boy at \$100 per year.
11. 10 hours, the whole year.
12. Two-thirds at the manufactory; one-third carried between fifty and fifty miles.
16. Half for cash, the other half bartered for stock and country produce.
17. Wool hats at \$6 50 per dozen; fur hats at from 30 to \$42 per dozen.
20. \$650.

## DOCUMENT 14.—No. 317.

*John Crawford, Hat Manufacturer, Pulaski, Mercer County, West Pennsylvania.*

Answer to question 1. Mercer county, Pennsylvania.

2. Hat manufactory.
3. \$50.
4. \$100.
5. 25 per cent.
7. \$160; \$80 worth of fur hats at \$3 50 to \$4; wool hats worth 75 cents each.
8. \$60 worth of domestic wool and fur; \$5 worth of foreign dye stuffs.
10. One man and one woman; the man at \$100 per year; the woman at \$37.
11. 8 hours a day, 9 months.
12. At the manufactory.
14. In the vicinity of the manufactory.
16. On a credit of six months, and bartered for stock for the manufactory and the produce of the country.
18. A high duty.

## DOCUMENT 14.—No. 318.

*Tanneries in Warren County, West Pennsylvania.*

|                   |              | Build-<br>ings,<br>&c. | Materials<br>and<br>wages. | Value manufactured. |
|-------------------|--------------|------------------------|----------------------------|---------------------|
| H. Bostic,        | Warren,      | - \$300                | \$1,000                    | \$2,000.            |
| N. B. Langdon,    | Sugar grove, | - 300                  | 1,000                      | 2,000.              |
| Kimble Webber,    | Columbus     | - 100                  | 300                        | 600.                |
| Andrew Walton,    | do.          | - 100                  | 300                        | 600.                |
| John McKee,       | Youngsville, | - 100                  | 200                        | 400.                |
| Jacob Diefendoff, | do.          | - 100                  | 200                        | 400.                |

## DOCUMENT 14.—No. 318—Continued.

*Fulking Mills in Warren County.*

|                  |               | Build-<br>ings,<br>&c. | Materials<br>and<br>wages. | Value manufactured.           |
|------------------|---------------|------------------------|----------------------------|-------------------------------|
| Iden,            | Pine grove, - | \$300                  | \$600                      | 4,000 yards, dressed.         |
| McKinney,        |               | 300                    | 400                        | 2,000 2,000 lbs. wool carded. |
| man & Robertson, |               | 400                    | 600                        | 3,500.                        |
| Wright,          |               | 300                    | 400                        | 3,000 yards.                  |

*Boots and Shoes made in Warren County.*

|                   |                |   |   |                   |
|-------------------|----------------|---|---|-------------------|
| Brown,            | Warren, -      | - | - | \$1,500. 3 hands. |
| Stebbins,         | do. -          | - | - | 800. 2 do.        |
| E. Stone,         | do. -          | - | - | 600. 2 do.        |
| Eglesby,          | Pine grove, -  | - | - | 1,000. 3 do.      |
| Harvey,           | do. -          | - | - | 600. 2 do.        |
| J. K. Ferrington, | Youngsville, - | - | - | 1,000. 3 do.      |
| Babcock,          | Columbus, -    | - | - | 400. 1 do.        |

*Hats made in Warren County.*

|            |           |   |   |          |
|------------|-----------|---|---|----------|
| I. Sayles, | Warren, - | - | - | \$1,000. |
|------------|-----------|---|---|----------|

## DOCUMENT 14.—No. 319.

*Hat Manufactory, Washington County, West Pennsylvania.*

| QUESTIONS.                                                                               | ANSWERS.                                 |
|------------------------------------------------------------------------------------------|------------------------------------------|
| 1. State and county in which the manufactory is situated?                                | 1. Washington county.                    |
| 2. Kind or description of the manufactory?                                               | 2. Hatting.                              |
| 3. Capital invested in ground and buildings?                                             | 3. Four hundred dollars.                 |
| 4. Average amount in materials, and in cash the purchase of materials and payment wages? | 4. Five hundred dollars.                 |
| 5. Annual rate of profit on the capital invested?                                        | 5. One hundred and twenty-five dollars.  |
| 6. Number of men employed, and average rate of wages?                                    | 10. Two hands, \$150.                    |
| 9. What has been the rate of your profit annually for the last three years?              | 19. One hundred and twenty-five dollars. |
| 9. Amount of capital?                                                                    | 20. Three hundred dollars.               |

SAM'L KIRK.

## DOCUMENT 14.—No. 320.

*Hat Manufactory, Washington County, West Pennsylvania.*

| QUESTIONS.                                                | ANSWERS.                                          |
|-----------------------------------------------------------|---------------------------------------------------|
| 1. State and county in which the manufactory is situated? | 1. Williamsburg, Washington county, Pennsylvania. |

## DOCUMENT 14.—No. 320—Continued.

| QUESTIONS.                                                                                                                 | ANSWERS.                              |
|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                       | 2. Hatter.                            |
| 3. When established, and whether a joint stock concern?                                                                    | 3. April 1, 1832.                     |
| 4. Capital invested in ground and buildings?                                                                               | 4. Two hundred dollars.               |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                            | 5. Eight hundred dollars.             |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                  | 16. Find at home, at the manufactory. |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent? | 17. They do not.                      |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                  | 19. No.                               |

THOS. HEMMAN.

## DOCUMENT 14.—No. 321.

*Hat Manufactory, Washington County, West Pennsylvania.*

| QUESTIONS.                                                                                      | ANSWERS.                                        |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Washington county, Pennsylvania.             |
| 2. Kind or description of the manufactory?                                                      | 2. Hats, wool and fur.                          |
| 3. Capital invested in ground and buildings?                                                    | 3. Five hundred dollars.                        |
| 4. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 4. Twenty-two hundred and seventy-five dollars. |
| 5. Annual rate of profit on the capital invested?                                               | 5. Eight per cent.                              |
| 14. Where are the manufactures consumed?                                                        | 14. Washington county, Pennsylvania.            |

McKEEVER &amp; CARY.

## DOCUMENT 14.—No. 322.

*Summary of the Hat Manufactories of Westmoreland County, West Pennsylvania.*

| QUESTIONS.                                                | ANSWERS.                                              |
|-----------------------------------------------------------|-------------------------------------------------------|
| 1. State and county in which the manufactory is situated? | 1. In Westmoreland county, and State of Pennsylvania. |

DOCUMENT 14.—No. 322—Continued.

| QUESTIONS.                                                                                                                       | ANSWERS.                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Kind or description of the manufacture.                                                                                          | 2. Hat manufactories.                                                                                                                                                           |
| Capital invested in ground and build-                                                                                            | 3. Four thousand one hundred and forty-five dollars.                                                                                                                            |
| Average amount in materials, and in for the purchase of materials and pay- of wages?                                             | 4. Thirteen thousand five hundred and sixty dollars per annum.                                                                                                                  |
| Annual rate of profit on the capital in- d?                                                                                      | 5. Four thousand seven hundred and forty dollars.                                                                                                                               |
| Cause of the increase, (or decrease, as case may be,) of profit?                                                                 | 6. Latterly no material increase or de- crease.                                                                                                                                 |
| Amount of articles annually manufac- t since the establishment of the manu- ry? Description, quality, and value of kind?         | 7. Eighteen thousand dollars: all kinds of fur and woollen hats: quality and value given in No. 17.                                                                             |
| Quantity and value of different kinds of materials used; distinguishing between foreign products and domestic products?          | 8. Eight thousand four hundred and ninety-five dollars' worth of furs and wool are manu- factured annually in this county; the wool at present will average 30 cents per pound. |
| Cost in the United States of similar ar- s of manufacture imported from abroad, from what countries?                             | 9. Unable to answer.                                                                                                                                                            |
| 1. Number of men, women, and children employed, and average wages of each class?                                                 | 10. From 30 to 40 men are engaged in this manufacture, and from 5 to 10 boys: the latter receive no compensation but clothes and boarding.                                      |
| 1. How many hours a day employed, and 1 portion of the year?                                                                     | 11. Average ten hours per day, all the year.                                                                                                                                    |
| 2. Whether the manufactures find a mar- at the manufactory? If not, how far they sent to a market?                               | 12. Generally at the manufactory: some, however, are sent to Baltimore, and some to Pittsburgh.                                                                                 |
| 3. Whether foreign articles of the like is enter into competition with them at place of sale, and to what extent?                | 13. Unable to answer.                                                                                                                                                           |
| 4. Where are the manufactures consumed?                                                                                          | 14. Do.                                                                                                                                                                         |
| 5. Whether any of the manufactures are orted to foreign countries? and, if so, re?                                               | 15. Do.                                                                                                                                                                         |
| 6. Whether the manufacture is sold by manufacturer for cash? and if on credit, what credit? if bartered, for what?               | 16. Generally on credit, which will average nine months: bartered for wool and produce.                                                                                         |
| 7. The prices at which the manufactures e been sold by the manufacturer since establishment?                                     | 17. Beaveretts \$8, castors \$6, rorams \$3 50, woollen per dozen.                                                                                                              |
| 8. What rate of duty is necessary to en- the manufacturer to enter into competi- in the home market with similar articles orted? | 18. Unable to answer.                                                                                                                                                           |
| 9. What has been the rate of your profits, ually, for the last three years?                                                      | 19. Twenty per cent. per annum.                                                                                                                                                 |
| 0. Amount of capital?                                                                                                            | 20. Nine thousand three hundred and fifty-five dollars.                                                                                                                         |
| 1. Average rate of wages?                                                                                                        | 21. Average wages, from 12 to \$15 per month.                                                                                                                                   |

N. B.—There are yet a few factories in this county which I have not received, through at of time.

ED. JOHNSTON.

## DOCUMENT 14.—No. 393.

## ABSTRACT OF THE MANUFACTURES OF PENNSYLVANIA.

*Glass Manufactures.*

| County.   | Names of manufacturers. | Capital invested. | Green glass. | Flint glass. | Am't of materials and wages. | Number of men and boys employed. | Number of horses. | Agricultural productions consumed. | Am't of materials and payment of wages. | Number of men and boys employed. | Total am't annually manufactured. |
|-----------|-------------------------|-------------------|--------------|--------------|------------------------------|----------------------------------|-------------------|------------------------------------|-----------------------------------------|----------------------------------|-----------------------------------|
| Fayette   | - Martin & Baker        | \$4,500           | Boxes.       | -            | \$7,450                      | 30                               | 6                 | \$5,400                            | -                                       | -                                | \$14,500                          |
|           | - John Taylor & Co.     | 7,000             | 4,000        | -            | 18,500                       | 27                               | 2                 | -                                  | -                                       | -                                | 20,000                            |
|           | - N. & P. Swearer       | 15,000            | 4,500        | -            | 18,000                       | 37                               | 1                 | -                                  | -                                       | -                                | 20,000                            |
|           | - S. C. Beaver & Co.    | 20,000            | 3,500        | -            | 12,500                       | 27                               | 5                 | -                                  | -                                       | -                                | 14,000                            |
| Greene    | -                       | 46,500            | 16,500       | -            | 56,450                       | 111                              | 14                | 5,400                              | -                                       | -                                | 68,500                            |
|           | - R. F. Black & Co.     | 8,000             | 4,000        | -            | 10,000                       | 28                               | -                 | 4,000                              | -                                       | -                                | 16,000                            |
| Alleghany | -                       | 30,000            | -            | Flint        | -                            | -                                | -                 | -                                  | \$80,000                                | 36                               | 40,000                            |
|           | -                       | 40,000            | -            | do           | -                            | -                                | -                 | -                                  | 40,000                                  | 50                               | 50,000                            |
|           | -                       | 15,000            | -            | do           | -                            | -                                | -                 | -                                  | 15,000                                  | 18                               | 18,000                            |
|           | -                       | 20,000            | 3,500        | Green        | -                            | -                                | 5                 | -                                  | 16,000                                  | 27                               | 14,000                            |
| Do        | Hay & McCully           | 33,000            | 4,500        | do           | -                            | -                                | -                 | -                                  | 33,000                                  | 36                               | 43,000                            |
| Do        | Frederick Lorenz        | 10,000            | -            | do           | -                            | -                                | 6                 | -                                  | 18,450                                  | 30                               | 20,000                            |
| Do        | John Robinson           | -                 | -            | -            | -                            | -                                | -                 | -                                  | -                                       | -                                | -                                 |
| Do        | Thomas Thompson         | -                 | -            | -            | -                            | -                                | -                 | -                                  | -                                       | -                                | -                                 |
|           |                         | 148,000           | 8,000        | -            | -                            | -                                | 11                | -                                  | \$152,450                               | 197                              | 183,000                           |

| County.      | Names of manufac-<br>tures. | Capital invest-<br>ed. | Quantity manu-<br>factured. | Amount of ma-<br>terials and<br>wages. | Am't of agricul-<br>tural produc-<br>tions used. | Number of<br>men, women,<br>and boys. | Number of<br>horses, &c.<br>employed. | Total amount<br>manufactured<br>annually. |
|--------------|-----------------------------|------------------------|-----------------------------|----------------------------------------|--------------------------------------------------|---------------------------------------|---------------------------------------|-------------------------------------------|
| Fayette      | -                           | \$10,000               | Reams.                      | \$8,677                                | \$5,860                                          | 27                                    | -                                     | \$10,025                                  |
| Do           | -                           | 10,000                 | 3,300                       | 6,750                                  | -                                                | 36                                    | 6                                     | 10,000                                    |
|              |                             | 20,000                 | 6,600                       | 15,427                                 | 5,860                                            | 63                                    | 5                                     | 20,025                                    |
| Grawford     | William Magaw               | 16,000                 | Straw paper                 | 3,122                                  | 1,128 40                                         | 11                                    | 2                                     | 9,000                                     |
| Westmoreland | Markle & Co.                | 9,000                  | 5,000                       | 10,000                                 | 5,000                                            | 20                                    | 6                                     | 15,000                                    |
| Somerset     | -                           | 3,000                  | 1,600                       | -                                      | -                                                | 8                                     | 2                                     | 5,600                                     |
| Erie         | R. Pelton                   | 6,000                  | 3,300                       | -                                      | -                                                | 11                                    | -                                     | 10,000                                    |
| Beaver       | Johnston & Stockton         | 19,000                 | -                           | 6,800                                  | -                                                | 38                                    | 3                                     | 15,000                                    |
| Huntingdon   | John McCahon                | 3,000                  | 1,650                       | -                                      | -                                                | 8                                     | 3                                     | 5,800                                     |
| Columbia     | Benjamin Sharpless          | 21,000                 | 1,900                       | -                                      | -                                                | 15                                    | -                                     | 6,300                                     |
| Luzerne      | W. H. Alexander & Co.       | 5,000                  | 1,600                       | 3,250                                  | -                                                | 11                                    | 2                                     | 4,500                                     |
| Alleghany    | H. Holdship                 | 50,000                 | 16,000                      | 38,000                                 | -                                                | 190                                   | -                                     | 58,000                                    |
| Do           | Hines & Howard              | 10,000                 | 3,400                       | 6,800                                  | -                                                | 35                                    | -                                     | 11,300                                    |
| Do           | Brown & Co.                 | 20,000                 | 10,000                      | 16,000                                 | -                                                | 60                                    | -                                     | 1,800                                     |
|              |                             | 80,000                 | 29,400                      | 60,800                                 | -                                                | 215                                   | -                                     | 71,100                                    |



## DOCUMENT 14.—No. 323.—ABSTRACT—Continued.

*Cotton Manufactures.*

| Counties.             | Names of Manufacturers.         | Power. | Capital invested. | Amount of materials and wages. | No. of men, women, and boys employed. | No. of horses and oxen. | Total amount annually manufactured. |
|-----------------------|---------------------------------|--------|-------------------|--------------------------------|---------------------------------------|-------------------------|-------------------------------------|
| Pittsburgh, Alleghany | Shoenberger, Wrenshaw & Co.     | Steam  | \$77,000          | \$40,000                       | 103                                   | -                       | \$50,000                            |
| Do                    | Adams, Allen & Co.              | do     | 160,000           | 100,000                        | 160                                   | -                       | 170,000                             |
| Do                    | Blackstock, Bell & Co.          | do     | 87,000            | 46,000                         | 103                                   | -                       | 53,000                              |
| Do                    | Weavers                         | -      | -                 | 85,600                         | 200                                   | -                       | 93,600                              |
|                       |                                 |        | \$324,000         | \$271,600                      | 568                                   |                         | \$366,600                           |
| Centre                | Theophilus Keckener             | Water  | 2,000             | 2,500                          | 8                                     | -                       | 4,500                               |
| Payette               | H. Stewart & Co.                | Water  | 12,000            | 7,000                          | 28                                    | -                       | 10,000                              |
| Beaver                | Pugh's, Wilson & Co.            | Water  | 16,000            | 15,000                         | 35                                    | -                       | 12,000                              |
| Do                    | James Patterson                 | do     | 85,000            | 30,000                         | 48                                    | 15                      | 36,000                              |
| Do                    | Frederick Rapp, Harmony Society | Steam  | 25,000            | 13,400                         | -                                     | -                       | 23,000                              |
|                       |                                 |        | \$126,000         | \$58,400                       | 78                                    | 15                      | \$70,000                            |

| Counties.                                                                                                                                                                                                                         | Names of manufacturers. | Power.        | Capital invested. | Amount of materials and wages. | Amount of agricultural productions used. | No. of men, women, and boys employed. | Number of horses. | Total amount annually manufactured. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------|-------------------|--------------------------------|------------------------------------------|---------------------------------------|-------------------|-------------------------------------|
| Washington                                                                                                                                                                                                                        | Robert Moore            | Water & horse | \$1,400           | \$4,560                        | -                                        | -                                     | -                 | \$5,960                             |
| Do                                                                                                                                                                                                                                | John Buckingham         | Water         | 4,000             | 4,400                          | -                                        | -                                     | -                 | 6,000                               |
| Do                                                                                                                                                                                                                                | William Arthurs         | do            | 14,000            | 3,680                          | -                                        | -                                     | -                 | 6,000                               |
| Do                                                                                                                                                                                                                                | Hugh and W. Hannah      | do            | 1,000             | 270                            | -                                        | -                                     | -                 | 1,200                               |
| Do                                                                                                                                                                                                                                | Benjamin Parker         | Steam         | 2,000             | 4,000                          | -                                        | -                                     | -                 | 6,000                               |
| Do                                                                                                                                                                                                                                | Amos Harvey             | Water         | 1,000             | 4,000                          | -                                        | -                                     | -                 | 5,000                               |
|                                                                                                                                                                                                                                   |                         |               | \$33,400          | \$20,830                       |                                          |                                       |                   | \$30,160                            |
| In the following counties there are forty-one fulling mills, to wit: Armstrong, Butler, Jefferson, Venango, Cambria, Clearfield, McKean, Potter, Northumberland, and Susquehanna, manufacturing 123,000 yards, averaging 70 cents |                         |               |                   |                                |                                          |                                       |                   |                                     |
| Somersett                                                                                                                                                                                                                         | -                       | Water         | 30,000            | 4,300                          | -                                        | -                                     | -                 | 44,900                              |
| Alleghany                                                                                                                                                                                                                         | Andrew Murphy           | Water & steam | 7,000             | 5,000                          | 4,300                                    | -                                     | -                 | 6,400                               |
| Do                                                                                                                                                                                                                                | Hamilton Arthurs        | Horse         | 2,000             | 3,750                          | -                                        | -                                     | -                 | 4,500                               |
|                                                                                                                                                                                                                                   |                         |               | 9,000             | 8,750                          | 4,300                                    |                                       |                   | 10,900                              |
| In Alleghany there are 20 fulling mills, manufacture 65,000 yards of cloth, averaging about one dollar                                                                                                                            |                         |               |                   |                                |                                          |                                       |                   |                                     |
|                                                                                                                                                                                                                                   |                         |               |                   |                                |                                          |                                       |                   | 65,000                              |
|                                                                                                                                                                                                                                   |                         |               |                   |                                |                                          |                                       |                   | 75,900                              |
| Fayette                                                                                                                                                                                                                           | James Pilling           | Water         | 3,000             | 1,600                          | -                                        | -                                     | -                 | 4,000 00                            |
| Do                                                                                                                                                                                                                                | Brackin & Rogers        | do & steam    | 3,500             | 1,723                          | -                                        | -                                     | -                 | 3,300 00                            |
| Do                                                                                                                                                                                                                                | Trevor, Foster & Co.    | Water         | 9,000             | 15,900                         | 7,250                                    | -                                     | -                 | 17,090 78                           |
| Do                                                                                                                                                                                                                                | Ellis Stevenson         | do            | 2,000             | 1,500                          | 2,060                                    | -                                     | -                 | 2,000 00                            |
|                                                                                                                                                                                                                                   |                         |               | 17,500            | 20,023                         | 9,250                                    |                                       |                   | 26,390 78                           |

## Document 14.—No. 323—ABSTRACT Continued.

| Counties. | Names of manufacturers. | Power. | Capital invested. | Amount of materials and wages. | Amount of agricultural productions used. | No. of men, women, and boys employed. | Number of horses. | Total amount annually manufactured. |
|-----------|-------------------------|--------|-------------------|--------------------------------|------------------------------------------|---------------------------------------|-------------------|-------------------------------------|
| Luzerne   | R. & J. Holgate         | Water  | \$8,000           | \$3,000                        | -                                        | 9                                     | -                 | \$4,500 00                          |
| Do        | Sterling & Parker       | do     | 6,000             | 4,750                          | -                                        | 13                                    | -                 | 5,862 00                            |
|           |                         |        | 14,000            | 7,750                          | -                                        | 22 men.                               | -                 | 10,362 00                           |
| Mercer    | -                       | Water  | 12,000            | 7,400                          | -                                        | -                                     | -                 | 20,000 00                           |
| Warren    | -                       | do     | 1,300             | 2,000                          | -                                        | -                                     | -                 | 6,000 00                            |
| Crawford  | -                       | -      | 8,300             | 6,000                          | -                                        | -                                     | -                 | 10,000 00                           |
| Union     | Daniel Caldwell         | Water  | 6,000             | 2,000                          | -                                        | 5                                     | -                 | 2,940 00                            |
| Erie      | -                       | -      | 4,500             | 1,500                          | -                                        | -                                     | -                 | 3,600 00                            |
| Do        | George Hill             | Water  | 2,500             | -                              | -                                        | -                                     | -                 | 600 00                              |
| Do        | James Innis             | do     | 2,000             | 700                            | -                                        | -                                     | -                 | 1,000 00                            |
|           |                         |        | 9,000             | 2,900                          | -                                        | -                                     | -                 | 5,300 00                            |
| Centre    | -                       | Water  | 5,000             | 4,000                          | \$2,400                                  | -                                     | -                 | 4,650 00                            |
| Do        | -                       | do     | 4,800             | 1,650                          | 4,600                                    | 15                                    | -                 | 8,000 00                            |
|           |                         |        | 9,800             | 5,650                          | 7,000                                    | 15                                    | -                 | 12,650 00                           |
| Tioga     | -                       | do     | 2,200             | 700                            | -                                        | -                                     | -                 | 990 00                              |
| Greene    | -                       | do     | 8,000             | -                              | 2,000                                    | 5                                     | -                 | 6,760 00                            |
| Indiana   | -                       | do     | 3,600             | 1,800                          | -                                        | -                                     | -                 | 2,400 00                            |
| Do        | -                       | do     | 4,000             | 800                            | -                                        | -                                     | -                 | 1,800 00                            |
|           |                         |        | 7,600             | 2,600                          | -                                        | -                                     | -                 | 3,200 00                            |

| Do           | Frame & Co.       | do    | 8,000  | 4,789  | - | - | 11     | - | 6,152 00   |
|--------------|-------------------|-------|--------|--------|---|---|--------|---|------------|
| Westmoreland | -                 | -     | 14,000 | 8,349  | - | - | 18     | - | 10,406 00  |
| Beaver       | -                 | -     | 11,500 | 2,900  | - | - | -      | - | 4,000 00   |
| Do           | -                 | Water | 18,300 | 15,000 | - | - | -      | - | 16,000 00  |
|              | F. Bapp           | Steam | 30,000 | 32,000 | - | - | -      | - | 84,571 00  |
|              |                   |       |        |        | - | - | -      | - | 100,571 00 |
| Lycening     | Rich and McOrnick | Water | 48,360 | 47,000 | - | - | -      | - | 6,500 00   |
| Do           | Samuel Rogers     | do    | 9,000  | 5,000  | - | - | 20     | 2 | 6,080 00   |
| Do           | William Rogers    | do    | 9,000  | 4,924  | - | - | 19     | - | 2,000 00   |
| Do           | Joseph Sweet      | do    | 3,000  | 1,500  | - | - | 14     | - | 2,500 00   |
| Do           | Peter Blackwell   | do    | 3,000  | 1,565  | - | - | 13     | - | 2,520 00   |
|              |                   |       | 2,500  | 2,054  | - | - | 9      | - | 19,600 00  |
| Bedford      | Abraham Keagy     | -     | 26,500 | 15,043 | - | - | 75 men | 2 | 471 75     |
| Do           | John Lutz         | -     | 950    | 270    | - | - | -      | - | 1,894 75   |
|              |                   |       | 8,000  | -      | - | - | -      | - | 2,363 50   |
| Junetta      | Joseph Schofield  | -     | 9,950  | 270    | - | - | -      | - | 750 00     |
| Huntingdon   | -                 | -     | 5,000  | 1,100  | - | - | -      | - | 4,500 00   |
| Mifflin      | -                 | -     | 10,000 | 3,409  | - | - | -      | - | 3,500 00   |
|              |                   |       | 7,000  | 2,100  | - | - | -      | - | 3,356 00   |
| Columbia     | Daniel Montgomery | Water | 6,000  | 3,150  | - | - | 9      | - | 5,000 00   |
| Do           | Samuel Millard    | do    | 6,500  | 4,000  | - | - | 12     | - | 5,420 00   |
| Do           | Benjamin Eves     | do    | 7,300  | 4,350  | - | - | 8      | - | 1,750 00   |
| Do           | Isaac Hart        | do    | 1,500  | 500    | - | - | 2      | - | 820 00     |
| Do           | Mrs. Montgomery   | do    | 3,000  | 600    | - | - | 3      | - | 16,346 00  |
|              |                   |       | 24,300 | 12,600 | - | - | 34     | - |            |

## DOCUMENT 14.—No. 323—ABSTRACT—Continued.

## Salt Manufacturers.

| County.    | Names of manufacturers. | Power. | Capital invested. | Quantity manufactured. | Number of men employed. | Number of horses, &c. | Am't of materials, &c., and payment of wages. | Total amount annually manufactured. |
|------------|-------------------------|--------|-------------------|------------------------|-------------------------|-----------------------|-----------------------------------------------|-------------------------------------|
| Alleghany, | James McDonald,         | Steam, | \$6,000           | 32,000                 | 7 men                   | -                     | \$3,600                                       | \$12,800                            |
| Do         | George Anshutz, Jr.,    | do     | 8,000             | 32,000                 | 7                       | -                     | 3,600                                         | 12,800                              |
| Do         | Boyle Irwin,            | do     | 10,000            | 15,000                 | 8                       | 6 horses              | 2,500                                         | 7,500                               |
| Do         | William Caven,          | do     | 3,000             | 10,500                 | 4                       | 4                     | 3,700                                         | 4,300                               |
|            |                         |        | \$27,000          | bush. 89,500           | 26 men                  | 10 horses             | \$13,400                                      | \$37,300                            |
| Butler,    | D. and J. Wilson,       | do     | 10,000            | 13,000                 | 10                      | 1                     | 2,100                                         | 7,800                               |
| Beaver,    | M. Adams,               | do     | 6,000             | 5,600                  | 7                       | 12                    | 2,400                                         | 3,000                               |
| Indiana,   | William McFarland,      | -      | 7,000             | 18,000                 | 7                       | 3                     | 2,200                                         | 5,400                               |
| Do         | William Barker,         | -      | 7,000             | 9,000                  | 6                       | -                     | 1,100                                         | 3,600                               |
| Do         | J. and H. Drum,         | do     | 19,000            | 1,300                  | 9                       | 10                    | 2,400                                         | 8,000                               |
| Do         | McKeown and Rodgers,    | do     | 13,000            | 31,000                 | 15                      | 5                     | 6,600                                         | 10,850                              |
| Do         | Thomas Johnston,        | do     | 7,000             | 5,000                  | 6                       | 2                     | 1,680                                         | 2,500                               |
|            |                         |        | \$46,000          | bush. 64,300           | 43 men                  | 20 horses             | \$13,980                                      | \$30,350                            |

| County.                     | Names of manufacturers. | Power. | Capital invested. | Quantity manufactured. | Number of wells. | Number of men employed. | Number of horses, &c. | Amount of materials and payment of wages, &c. | Total amount annually manufactured. |
|-----------------------------|-------------------------|--------|-------------------|------------------------|------------------|-------------------------|-----------------------|-----------------------------------------------|-------------------------------------|
| Armstrong and Westmoreland, | Robert T. Stewart,      | Steam, | \$100,000         | bus. 150,000           | 20               | 150 men                 | 3 horses              | \$35,000                                      | \$52,500                            |
| Westmoreland,               | Dobbin and Arts,        | do     | 10,000            | 31,200                 | -                | 16                      | -                     | 4,397                                         | 10,920                              |
| Do                          | N. M. D. Sterrett,      | do     | 6,000             | 12,000                 | -                | 13                      | -                     | -                                             | 4,200                               |
| Do                          | W. M. Skelton,          | do     | 6,000             | 12,000                 | -                | 12                      | 2                     | 1,200                                         | 4,200                               |
| Do                          | Jacob Drum,             | do     | 8,000             | 14,000                 | -                | 11                      | -                     | 2,400                                         | 4,900                               |
| Do                          | Talmage and Criswell,   | Horse, | 6,000             | 10,000                 | -                | 6                       | -                     | -                                             | 3,500                               |
| Do                          | Shaner's                | do     | 2,500             | 3,500                  | -                | 3                       | 3                     | 500                                           | 1,400                               |
| Do                          | Donnelly and Weaver,    | Steam, | 8,000             | 8,000                  | -                | 6                       | -                     | 4,000                                         | 3,360                               |
| Armstrong                   | David Keiler & Co.,     | -      | \$46,500          | 90,700                 | -                | 67 men                  | 5 horses              | \$12,497                                      | \$32,480                            |
| Do                          | David Brinneman & Co.,  | Steam, | 4,000             | 8,000                  | -                | 4                       | -                     | 2,200                                         | 3,360                               |
| Do                          | Do                      | do     | 6,000             | 9,000                  | -                | 4                       | -                     | 2,200                                         | 3,420                               |
| Do                          | Henry S. Weaver,        | do     | 6,000             | 8,000                  | -                | 4                       | -                     | 2,000                                         | 3,360                               |
| Do                          | Hugh Bigham,            | do     | 7,000             | 6,600                  | -                | 4                       | -                     | 1,800                                         | 2,925                               |
| Do                          | Francis M. Thompson,    | do     | 4,000             | 7,000                  | -                | 6                       | -                     | 2,000                                         | 2,520                               |
| Do                          | -                       | -      | -                 | 3,000                  | -                | 4                       | -                     | 500                                           | 1,200                               |
|                             |                         |        | \$33,000          | 41,580                 | -                | 26 men                  | -                     | \$10,700                                      | \$16,785                            |

| County.                    | Names of manufactur-<br>era.  | Description.                   | Power. | Capital<br>invested. | Pig<br>metal. | Cast-<br>ings. | Iron.     |
|----------------------------|-------------------------------|--------------------------------|--------|----------------------|---------------|----------------|-----------|
| Armstrong                  | A. & J. K. McNickle           | Furnace                        | Steam  | \$20,000             | 7000          | 7000           |           |
| Do.                        | Alexander McNickle            | Do.                            | Do.    | 10,000               | 400           |                |           |
|                            |                               |                                |        | \$30,000             | 1,000         |                |           |
| Alleghany                  | Packard & Lippincott          | Rolling mill &<br>nail factory | Do.    | 20,000               | -             | -              | 20        |
| Do.                        | Asa Waters                    | Cotton machi-<br>nery, &c.     | Do.    | 12,000               | -             | -              | -         |
| Alleghany, Pitts-<br>burgh | S. Smith, & Co.               | Rolling mill &<br>nail factory | Do.    | 28,000               | -             | -              | 30        |
| Do.                        | Leonard, Sample, &<br>Leonard | Rolling mill                   | Do.    | 50,000               | -             | -              | 1,500     |
| Do.                        | John Hartman                  | Foundry                        | -      | 10,000               | -             | -              | 400       |
| Do.                        | Kingsland, Lightner<br>& Co.  | Do.                            | Do.    | 30,000               | -             | -              | 800       |
| Do.                        | J. & J. Patterson             | Door locks                     | Do.    | 8,000                | -             | -              | -         |
| Do.                        | Mason, Miltenberger,<br>& Co. | Rolling mill                   | Do.    | 40,000               | -             | -              | 200       |
| Do.                        | John Arthurs                  | Steam engines                  | Do.    | 20,000               | -             | -              | -         |
| Do.                        | McClurg, Pratt, &<br>Wade     | Foundry and<br>steam engines   | Do.    | 60,000               | -             | -              | 900       |
| Do.                        | P. Shoenberger & Son          | Rolling mill &<br>forges       | Do.    | 75,000               | -             | -              | 3,515     |
| Do.                        | Lyon, Shorb & Co.             | Do.                            | Do.    | 60,000               | -             | -              | 1,200     |
| Do.                        | H. Spang & Son                | Do.                            | Do.    | 40,000               | -             | -              | 600       |
| Do.                        | H. Blake & Co.                | Do.                            | Do.    | 50,000               | -             | -              | 1,200     |
| Do.                        | Cuthbert & Co.                | Foundry                        | -      | 15,000               | -             | -              | 400       |
| Do.                        | Freeman & Miller              | Do.                            | -      | 18,000               | -             | -              | 300       |
| Do.                        | Mahlon Rodgers                | Steam engines                  | Steam  | 10,000               | -             | -              | -         |
| Do.                        | Thompson & Stack-<br>house    | Do.                            | Do.    | 19,000               | -             | -              | -         |
| Alleghany                  | Warden & Benny                | Do.                            | Do.    | 23,000               | -             | -              | -         |
| Do.                        | J. & E. Greer                 | Do.                            | Do.    | 15,000               | -             | -              | -         |
| Do.                        | William Johnston              | Do.                            | Do.    | 10,000               | -             | -              | -         |
| Do.                        | F. A. Bemis & Co.             | Do. & cotton<br>machinery      | Do.    | 25,000               | -             | -              | -         |
| Do.                        | Samuel A. Smith               | Steam engines                  | Do.    | 7,000                | -             | -              | -         |
| Do.                        | Douglass & Co.                | Do.                            | Do.    | 7,500                | -             | -              | -         |
| Do.                        | William Franklin              | Foundry                        | -      | 2,200                | -             | -              | 50        |
| Do.                        | Smith, Minis & Holmes         | Do.                            | -      | 6,000                | -             | -              | 150       |
|                            |                               |                                |        | \$660,700            |               |                | 3,947,377 |
| Fayette                    | W. S. Kanon                   | Furnace                        | Water  | 15,000               | 500           | -              | -         |
| Do.                        | John Huston                   | Do.                            | Do.    | 10,000               | 250           | -              | 50        |
| Do.                        | J. Kennedy Duncan             | Do.                            | Do.    | 12,000               | 350           | -              | 75        |
| Do.                        | Joseph Victor                 | Do.                            | Do.    | 10,000               | 300           | -              | -         |
| Do.                        | J. & G. Rogers                | Do.                            | -      | 18,000               | 500           | -              | 30        |
| Do.                        | Jacob Murphy                  | Do.                            | -      | 20,000               | -             | -              | 1,100     |

## BSTRACT—Continued.

manufactures.

| Mills. | Steam engines, value thereof. | Am't of materials and payment of wages. | Am't of agricultural productions used. | Number of men & boys employed. | Number of horses and oxen. | Total am't annually manufactured. | Remarks.                                                     |
|--------|-------------------------------|-----------------------------------------|----------------------------------------|--------------------------------|----------------------------|-----------------------------------|--------------------------------------------------------------|
| ons.   |                               |                                         |                                        |                                |                            |                                   |                                                              |
| -      | -                             | \$5,000                                 | \$8,000                                | 40 men                         | 39                         | \$16,800                          |                                                              |
| -      | -                             | 3,000                                   | 4,000                                  | 26                             | 26                         | 9,300                             |                                                              |
|        |                               | \$8,000                                 | 12,000                                 | 66                             | 55                         | \$26,000                          |                                                              |
| 150    | -                             | 36,000                                  | -                                      | 25                             | -                          | 45,000                            | They manufac'd steel plates, mill saws, shovels, spades, &c. |
| -      | -                             | 20,000                                  | -                                      | 30                             | -                          | 25,000                            | They also manufacture shovels, spades, edge tools, &c.       |
| 500    | -                             | 80,000                                  | -                                      | 31                             | -                          | 115,000                           |                                                              |
| -      | -                             | 123,000                                 | -                                      | 150                            | 12                         | 150,000                           |                                                              |
| -      | -                             | 20,000                                  | -                                      | 12                             | -                          | 24,000                            |                                                              |
| -      | -                             | 30,000                                  | -                                      | 75                             | -                          | 80,000                            |                                                              |
| -      | -                             | 2,500                                   | -                                      | 32                             | -                          | 8,000                             |                                                              |
| 500    | -                             | 29,000                                  | -                                      | 46                             | 50                         | 115,000                           |                                                              |
| -      | 40,000                        | 34,000                                  | -                                      | 40                             | -                          | 40,000                            |                                                              |
| -      | 50,000                        | 70,000                                  | -                                      | 80                             | -                          | 95,000                            |                                                              |
| 534    | -                             | 182,640                                 | -                                      | 78                             | -                          | 215,910                           |                                                              |
| 276    | -                             | 145,600                                 | -                                      | 54                             | -                          | 185,640                           |                                                              |
| 240    | -                             | 35,000                                  | -                                      | 45                             | -                          | 89,600                            |                                                              |
| 509    | -                             | 140,900                                 | -                                      | 71                             | -                          | 168,435                           |                                                              |
| -      | -                             | 20,000                                  | -                                      | 11                             | -                          | 25,007                            |                                                              |
| -      | 10,000                        | 23,000                                  | -                                      | 14                             | -                          | 31,000                            |                                                              |
| -      | 10,000                        | -                                       | -                                      | 18                             | -                          | 10,000                            |                                                              |
| -      | 38,000                        | 33,000                                  | -                                      | 35                             | -                          | 38,000                            |                                                              |
| -      | 44,000                        | 38,000                                  | -                                      | 41                             | -                          | 44,000                            |                                                              |
| -      | 19,000                        | 15,500                                  | -                                      | 24                             | -                          | 19,000                            |                                                              |
| -      | 11,000                        | 8,700                                   | -                                      | 16                             | -                          | 11,000                            |                                                              |
| -      | 12,000                        | 21,400                                  | -                                      | 25                             | -                          | 26,000                            | Machinery, \$14,000                                          |
| -      | 8,000                         | 6,200                                   | -                                      | 13                             | -                          | 8,000                             |                                                              |
| -      | 8,200                         | 6,500                                   | -                                      | 16                             | -                          | 8,200                             |                                                              |
| -      | -                             | 2,800                                   | -                                      | 4                              | -                          | 3,750                             |                                                              |
| -      | -                             | 9,300                                   | -                                      | 12                             | -                          | 11,250                            |                                                              |
| 09     | \$350,000                     | 1,133,040                               |                                        | 988                            | 62                         | \$1,591,785                       |                                                              |
| -      | -                             | 4,000                                   | 3,150                                  | 20 men                         | 12                         | 9,500                             |                                                              |
| -      | -                             | 4,700                                   | 3,000                                  | 30                             | 26                         | 10,000                            |                                                              |
| -      | -                             | 9,000                                   | 3,300                                  | 50                             | 26                         | 14,250                            |                                                              |
| -      | -                             | 9,500                                   | 3,050                                  | 50                             | 36                         | 13,400                            |                                                              |
| -      | -                             | 9,800                                   | 4,000                                  | 55                             | 35                         | 16,500                            |                                                              |
| -      | -                             | 7,000                                   | 2,000                                  | 10                             | 10                         | 10,800                            |                                                              |



| County.  | Names of Manufacturers.    | Description.                                                | Power.       | Capital invested. | Pig metal. | Value. |
|----------|----------------------------|-------------------------------------------------------------|--------------|-------------------|------------|--------|
| Fayette  | Aaron Springer             | Forge                                                       | -            | \$6,000           | -          | -      |
| Do       | Arthur Palmer              | Forge & rolling mill                                        | Steam        | 62,000            | 1,200      | -      |
| Do       | John Snowden, jr.          | Engine shop and foundry                                     | Do           | 8,000             | -          | -      |
| Do       | Anderson, Francis & Co.    | Air foundry                                                 | -            | 1,500             | -          | -      |
| Do       | William Cook               | Do                                                          | -            | 4,000             | -          | -      |
| Do       | Miltnerberger, Brown & Co. | Forge                                                       | Water & st'm | 25,000            | -          | 400    |
| Do       | Isaac Meason               | 2 forges & furnaces                                         | Do           | 80,000            | 1,000      | 350    |
|          |                            |                                                             |              | \$271,500         | 4,100      | 750    |
| Venango  | George McClelland          | Furnace                                                     | Water        | 10,000            | 350        | -      |
| Do       | John Anderson              | Do                                                          | Do           | 10,000            | 300        | -      |
| Do       | Bear & Myers               | Do                                                          | Do           | 15,000            | 500        | -      |
| Do       | W. & F. G. Creary          | Do                                                          | Do           | 10,000            | 350        | -      |
| Do       | Alexander McCalmont        | Forge                                                       | Do           | 17,600            | -          | -      |
| Do       | Samuel Hayes               | Do                                                          | Do           | 11,000            | -          | -      |
| Do       | James L. Chase & Co.       | Do                                                          | Do           | 7,000             | -          | -      |
|          |                            |                                                             |              | \$80,600          | 1,500      | -      |
| Somerset | -                          | Shade forge                                                 | Do           | 10,000            | -          | -      |
| Do       | -                          | Mary Anne forge                                             | Do           | 7,000             | -          | -      |
| Do       | -                          | Jackson furnace                                             | Do           | 5,000             | 60         | -      |
|          |                            |                                                             |              | \$22,000          | 60         | -      |
| Centre   | Philip Benner              | Forges & furnace                                            | Do           | 100,000           | -          | -      |
| Do       | Valentine & Thomas         | Do                                                          | Do           | 110,000           | 1,200      | -      |
| Do       | Harvey Bresler & Co.       | Furnace & forge                                             | Do           | 50,000            | 900        | 250    |
| Do       | Curtis, Hepburn & Co.      | Furnace                                                     | Do           | 30,000            | 1,000      | -      |
| Do       | Rowland Curtin & Sons      | Forge & furnace                                             | Do           | 200,000           | -          | -      |
| Do       | John Plumbe                | Forge                                                       | Do           | 20,000            | -          | 50     |
| Do       | Hardman Philips            | Forge and wood-screw factory, and rolling mill and foundry* | Water        | 136,000           | -          | -      |
| Do       | Isaac McKinney             | Furnace                                                     | Water        | 45,000            | 900        | -      |
| Do       | Lloyd & McNamara           | Furnace & forge                                             | Do           | 20,000            | 1,070      | 340    |
| Do       | Irwin & Houston            | Do                                                          | Do           | 30,000            | 980        | 300    |
| Do       | Harris, Thomas & Co.       | Furnace                                                     | Do           | 25,000            | 900        | -      |
| Do       | George Leiderich & Co.     | Do                                                          | Do           | 2,000             | -          | -      |
| Do       | John Duberman              | Foundry                                                     | -            | 1,500             | -          | -      |
| Do       | Joseph Miles               | Furnace and forge                                           | Water        | 100,000           | 600        | -      |
| Do       | Mann & Co.                 | Edge tools†                                                 | Do           | 6,000             | -          | -      |
|          |                            |                                                             |              | \$900,500         | 7,550      | 620    |
| Indiana  | Jones & Euwer              | Air foundry                                                 | -            | 3,000             | -          | -      |
| Crawford | Robert Stewart             | Foundry                                                     | Steam        | 16,000            | -          | -      |

\* For particulars refer to Mr. Philips' original return, No. 70, "Iron."

† They have manufactured 30,000 axes and other tools.

## ABSTRACT—Continued.

| Cast-<br>ings. | Bar &<br>sheet<br>iron. | Nails. | Steam en-<br>gines, value<br>there-<br>of. | Groce<br>of<br>wood<br>screws | Am't of ma-<br>terials and<br>payment of<br>wages. | Am't of<br>agricul-<br>tural pro-<br>ductions. | Number<br>of men &<br>boys em-<br>ployed. | Number<br>of horses<br>and oxen. | Total<br>am't annu-<br>ally manu-<br>factured. |
|----------------|-------------------------|--------|--------------------------------------------|-------------------------------|----------------------------------------------------|------------------------------------------------|-------------------------------------------|----------------------------------|------------------------------------------------|
| Tons.          | Tons.<br>bar 75         | T'rs.  |                                            |                               |                                                    |                                                |                                           |                                  |                                                |
| -              | -                       | -      | -                                          | -                             | \$4,300                                            | \$1,850                                        | 14                                        | 10                               | \$7,125                                        |
| -              | -                       | -      | -                                          | -                             | 25,000                                             | 9,000                                          | 65                                        | 36                               | 43,200                                         |
| -              | -                       | -      | \$20,000                                   | -                             | 70,000                                             | 4,000                                          | 20                                        | -                                | 20,000                                         |
| -              | -                       | -      | -                                          | -                             | 2,500                                              | 1,200                                          | 8                                         | -                                | 5,000                                          |
| 150            | -                       | -      | -                                          | -                             | 5,900                                              | 1,900                                          | 10                                        | -                                | 7,500                                          |
| -              | -                       | -      | -                                          | -                             | 9,000                                              | -                                              | 52                                        | 25                               | 36,000                                         |
| -              | -                       | -      | -                                          | -                             | 35,000                                             | 8,000                                          | 89                                        | 40                               | 52,500                                         |
| 305            | 195                     | -      | \$20,000                                   | -                             | \$135,700                                          | \$44,450                                       | 473                                       | 266                              | \$245,775                                      |
| -              | -                       | -      | -                                          | -                             | 8,000                                              | 2,193                                          | 40                                        | 25                               | 10,500                                         |
| 40             | -                       | -      | -                                          | -                             | 9,000                                              | 2,193                                          | 40                                        | 35                               | 11,000                                         |
| 25             | -                       | -      | -                                          | -                             | 10,000                                             | 3,800                                          | 50                                        | 16                               | 16,250                                         |
| 50             | -                       | -      | -                                          | -                             | 12,000                                             | 2,225                                          | 40                                        | 24                               | 14,250                                         |
| -              | 120                     | -      | -                                          | -                             | 8,000                                              | 2,300                                          | 26                                        | 16                               | 12,000                                         |
| -              | 150                     | -      | -                                          | -                             | 6,000                                              | 5,000                                          | 24                                        | 24                               | 15,000                                         |
| -              | 50                      | -      | -                                          | -                             | 4,000                                              | -                                              | 16                                        | 11                               | 5,000                                          |
| 115            | 320                     | -      | -                                          | -                             | \$57,000                                           | \$17,711                                       | 236                                       | 151                              | \$84,000                                       |
| -              | 30                      | -      | -                                          | -                             | 2,000                                              | -                                              | 6                                         | -                                | 3,300                                          |
| -              | 6                       | -      | -                                          | -                             | 500                                                | -                                              | 4                                         | -                                | 1,000                                          |
| -              | -                       | -      | -                                          | -                             | 1,000                                              | 500                                            | 20                                        | 14                               | 2,160                                          |
| -              | 36                      | -      | -                                          | -                             | \$3,500                                            | 500                                            | 30                                        | 12                               | \$6,460                                        |
| -              | -                       | -      | -                                          | -                             | 35,000                                             | 8,000                                          | 120                                       | -                                | 50,000                                         |
| -              | 700                     | 50     | -                                          | -                             | 50,000                                             | 6,270                                          | 100                                       | 60                               | 70,000                                         |
| 75             | 50                      | -      | -                                          | -                             | 11,500                                             | 5,350                                          | 88                                        | 54                               | 24,900                                         |
| 175            | -                       | -      | -                                          | -                             | 13,700                                             | 4,730                                          | 50                                        | 36                               | 32,750                                         |
| -              | 800                     | -      | -                                          | -                             | 30,440                                             | 7,000                                          | 125                                       | 78                               | 80,000                                         |
| -              | 50                      | -      | -                                          | -                             | 5,000                                              | -                                              | 30                                        | 20                               | 7,000                                          |
| 50             | 200                     | -      | -                                          | 26,000                        | 20,000                                             | -                                              | -                                         | -                                | 24,000                                         |
| -              | -                       | -      | -                                          | -                             | 20,000                                             | -                                              | 55                                        | 36                               | 22,500                                         |
| 60             | -                       | -      | -                                          | -                             | 38,000                                             | -                                              | 75                                        | 80                               | 43,680                                         |
| 30             | 50                      | -      | -                                          | -                             | 47,440                                             | -                                              | 85                                        | 49                               | 48,500                                         |
| -              | -                       | -      | -                                          | -                             | 20,000                                             | -                                              | 65                                        | 44                               | 20,700                                         |
| -              | -                       | -      | -                                          | *20                           | 1,000                                              | -                                              | 4                                         | 2                                | 2,000                                          |
| -              | -                       | -      | -                                          | *15                           | 800                                                | -                                              | 3                                         | 1                                | 1,600                                          |
| -              | 750                     | -      | -                                          | -                             | 55,000                                             | 7,000                                          | 95                                        | 64                               | 71,250                                         |
| -              | -                       | -      | -                                          | -                             | 40,000                                             | -                                              | 40                                        | 6                                | 45,000                                         |
| 390            | 2,600                   | 50     | -                                          | -                             | 387,880                                            | \$38,350                                       | 935                                       | 530                              | \$543,880                                      |
| 260            | -                       | -      | -                                          | -                             | 9,225                                              | -                                              | 12                                        | -                                | 15,600                                         |
| 160            | -                       | -      | -                                          | -                             | 11,000                                             | 2,000                                          | 12                                        | -                                | 14,000                                         |

\* Tons of plough iron.

| County.      | Names of manufactures. | Description.                           | Power. | Capital invested. | Fig metal |
|--------------|------------------------|----------------------------------------|--------|-------------------|-----------|
| Washington   | Benjamin Kendrick      | Plated ware                            | -      | \$5,000           | 700       |
| Westmoreland | Jacob D. Mathiot       | Blast furnace                          | Water  | 30,000            | 600       |
| Erie         | F. Glass               | Foundry                                | -      | 5,000             | -         |
| Beaver       | Townsend, Baird & Co.  | Wire                                   | Water  | 13,700            | -         |
| Bedford      | Peter Thornberger      | Forges                                 | Water  | 150,000           | -         |
| Do           | John Irwin             | Furnace and forges                     | Water  | 38,000            | 300       |
| Do           | King, Swoope & Co      | Blast furnace                          | Water  | 35,000            | 1,000     |
| Do           | Swoope & King          | Forge                                  | Water  | 23,675            | -         |
| Do           | Jonathan Lealie        | Furnace and forge                      | Water  | 23,500            | -         |
| Do           | Swoope & Royer         | Forge                                  | Water  | 6,850             | -         |
|              |                        |                                        |        | \$276,825         | 1,300     |
| Huntingdon   | Thomas N. Diyen        | Furnace                                | Water  | 10,000            | 350       |
| Do           | Dysart & Lloyd         | Forge                                  | Water  | 11,500            | -         |
| Do           | Edward Bell            | Forge                                  | Water  | 13,300            | -         |
| Do           | Royer & Smucker        | Forge                                  | Water  | 20,000            | -         |
| Do           | Samuel Royer           | Furnace                                | Water  | 50,000            | 1,100     |
| Do           | Peter Schoenberger     | Forge                                  | Water  | 40,000            | -         |
| Do           | Do                     | Blast furnace                          | Water  | 55,000            | 1,300     |
| Do           | Dorsey & Higgins       | Forge                                  | Water  | 25,000            | -         |
| Do           | Lyon, Foster & Co.     | Furnace                                | Water  | 45,000            | 1,300     |
| Do           | Shorb, Stewart & Co.   | Forges                                 | Water  | 30,000            | -         |
| Do           | C. Whigton             | Forge                                  | Water  | 6,000             | -         |
| Do           | H. S. Spang            | Forges and furnace                     | Water  | 85,000            | 600       |
| Do           | Shorb, Stewart & Co.   | Furnace                                | Water  | 50,000            | 1,400     |
| Do           | Lyon, Forster & Co.    | Furnace                                | Water  | 25,000            | 1,200     |
| Do           | Do                     | Forge                                  | Water  | 10,000            | -         |
| Do           | Do                     | Forge, slitting mill, and nail factory | Water  | 100,000           | -         |
| Do           | Robert Moore           | Forge                                  | Water  | 29,000            | -         |
| Do           | Michael Wallace        | Furnace                                | Water  | 19,000            | 300       |
| Do           | William & A. Couch     | Forges                                 | Water  | 10,000            | -         |
|              |                        |                                        |        | \$633,700         | 7,300     |
| Mifflin      | David N. Hufingsel     | Furnace                                | Water  | 25,000            | 1,200     |
| Do           | William & John Norris  | Furnace and forge                      | Water  | 50,000            | 1,200     |
| Do           | -                      | Marion furnace                         | Water  | 25,000            | 300       |
| Do           | Cogshall, Weeks & Co.  | Foundry                                | Horse  | 8,000             | -         |
|              |                        |                                        |        | \$108,000         | 2,500     |
| Columbia     | A. Grimner             | Furnace and forge                      | Water  | 30,000            | 300       |
| Do           | George Mack            | Foundry                                | Water  | 2,000             | -         |
| Do           | John Meyer             | Furnace and forge                      | Water  | 5,000             | -         |
|              |                        |                                        |        | \$37,000          | 300       |

## TRACT—Continued.

| tons. | Castings. | Bar and sheet iron. | Am't of materials and payment of wages. | Am't of agricultural productions used. | Number of men and boys employed. | Number of horses and oxen. | Total amount annually manufactured. |
|-------|-----------|---------------------|-----------------------------------------|----------------------------------------|----------------------------------|----------------------------|-------------------------------------|
| Tons. | Tons.     | Tons.               |                                         |                                        |                                  |                            |                                     |
| -     | -         | -                   | \$7,000                                 | -                                      | 23                               | -                          | \$11,000                            |
| -     | 100       | -                   | 18,000                                  | -                                      | 50                               | -                          | 23,000                              |
| -     | 40        | -                   | 1,500                                   | 1,200                                  | 6                                | -                          | 3,000                               |
| -     | -         | -                   | 8,000                                   | -                                      | 10                               | 7                          | 9,500                               |
| 1660  | -         | -                   | 126,500                                 | -                                      | 100                              | 68                         | 132,800                             |
| 300   | 20        | 50                  | 37,872                                  | -                                      | 70                               | 40                         | 42,450                              |
| -     | 25        | -                   | 23,000                                  | -                                      | 100                              | -                          | 26,250                              |
| 50    | -         | 250                 | 24,368                                  | -                                      | 35                               | 14                         | 28,250                              |
| -     | -         | 440                 | 34,800                                  | -                                      | 60                               | 38                         | 39,600                              |
| 100   | -         | 150                 | 16,750                                  | -                                      | 27                               | 14                         | 23,650                              |
| 1,110 | 45        | 890                 | \$273,290                               |                                        | 392                              | 164                        | \$293,000                           |
| -     | 50        | -                   | 9,120                                   | -                                      | 30                               | 14                         | 11,250                              |
| 300   | -         | 50                  | 21,024                                  | -                                      | 23                               | 14                         | 27,000                              |
| 142   | -         | 25                  | 9,975                                   | -                                      | 25                               | 18                         | 11,622                              |
| 230   | -         | 50                  | 18,380                                  | -                                      | 34                               | 23                         | 21,000                              |
| -     | -         | -                   | 22,000                                  | -                                      | 90                               | 45                         | 26,400                              |
| 500   | -         | -                   | 27,000                                  | -                                      | 45                               | 18                         | 33,000                              |
| -     | 50        | -                   | 28,500                                  | -                                      | 95                               | 37                         | 33,700                              |
| 245   | -         | 233                 | 28,900                                  | -                                      | 50                               | 35                         | 32,810                              |
| -     | 10        | -                   | 26,000                                  | -                                      | 60                               | 50                         | 29,300                              |
| 830   | -         | -                   | 48,000                                  | -                                      | 60                               | 40                         | 52,290                              |
| 160   | -         | 20                  | -                                       | -                                      | 22                               | 50                         | 12,160                              |
| 500   | 50        | -                   | 42,000                                  | -                                      | 150                              | 50                         | 49,900                              |
| -     | 20        | -                   | 30,000                                  | -                                      | 70                               | 60                         | 35,800                              |
| -     | 20        | -                   | 27,000                                  | -                                      | 70                               | 60                         | 28,600                              |
| 100   | -         | 60                  | -                                       | -                                      | 15                               | 12                         | 10,700                              |
| 350   | -         | 200                 | 30,000                                  | -                                      | 70                               | -                          | 36,700                              |
| 220   | -         | -                   | 12,672                                  | -                                      | 18                               | 12                         | 13,640                              |
| -     | 50        | -                   | 8,000                                   | -                                      | 20                               | 16                         | 10,000                              |
| 140   | -         | 138                 | 17,000                                  | -                                      | 20                               | 16                         | 20,000                              |
| 3,737 | 250       | 776                 | \$405,571                               |                                        | 967                              | 570                        | \$495,872                           |
| -     | -         | -                   | 22,000                                  | -                                      | 70                               | 30                         | 26,800                              |
| 300   | -         | 50                  | -                                       | -                                      | 50                               | 40                         | 41,200                              |
| -     | -         | -                   | 18,000                                  | -                                      | 50                               | 60                         | 21,600                              |
| -     | 180       | -                   | 7,000                                   | -                                      | 12                               | 2                          | 9,000                               |
| 300   | 180       | 50                  | \$47,000                                |                                        | 182                              | 132                        | \$98,600                            |
| -     | 100       | 100                 | 16,000                                  | 8,000                                  | 40                               | 20                         | 24,700                              |
| -     | 100       | -                   | 5,000                                   | -                                      | 8                                | 2                          | 6,000                               |
| -     | -         | 50                  | 3,500                                   | -                                      | 8                                | 10                         | 4,500                               |
|       | 200       | 150                 | \$24,500                                | 8,000                                  | 56                               | 32                         | 35,200                              |

| County.        | Names of manufactures. | Description.        | Power.  | Capital invested. | Fy net. |
|----------------|------------------------|---------------------|---------|-------------------|---------|
| Lycoming       | - Isaac McKinney       | - Forge             | - Water | 15,000            | 7m.     |
| Do             | - Hepburn & Lancake    | - Forge             | - Water | 15,000            | .       |
| Do             | - Kirk, Kelton & Co.   | - Forge             | - Water | 25,000            | .       |
| Do             | - E. H. Russell & Co.  | - Forge             | - Water | 12,000            | .       |
|                |                        |                     |         | \$67,000          |         |
| Union          | - Joseph Evans         | - Forge and furnace | - Water | 18,000            | 3c      |
| Do             | - A. P. Moderwell      | - Forge             | - Water | 10,000            | .       |
|                |                        |                     |         | \$28,000          | 2c      |
| Northumberland | - Johns, Huffman & Co. | - Forge             | - Water | 5,000             | .       |
| Do             | - Joseph Rhoads        | - Foundry           | - Horse | 2,000             | .       |
|                |                        |                     |         | \$7,000           |         |
| Luzerne        | - James A. Gordon      | - Forge             | - Water | 12,000            | .       |
| Do             | - S. B. Laycock        | - Foundry           | - Water | 8,000             | .       |
|                |                        |                     |         | \$20,000          |         |

## BSTRACT—Continued.

| blooms.      | Castings.    | Bar and<br>sheet<br>iron. | Am't of ma-<br>terials and<br>payment of<br>wages. | Am't of ag-<br>ricultural<br>productions<br>used. | Number of<br>men and<br>boys em-<br>ployed. | Number of<br>horses and<br>oxen. | Total amount<br>annually ma-<br>nufactured. |
|--------------|--------------|---------------------------|----------------------------------------------------|---------------------------------------------------|---------------------------------------------|----------------------------------|---------------------------------------------|
| <i>Tons.</i> | <i>Tons.</i> | <i>Tons.</i>              |                                                    |                                                   |                                             |                                  |                                             |
| 75           | -            | 225                       | \$18,000                                           | -                                                 | 30                                          | 15                               | \$21,375                                    |
| 75           | -            | 225                       | 18,000                                             | -                                                 | 30                                          | 15                               | 21,375                                      |
| 100          | -            | 200                       | 20,000                                             | -                                                 | 35                                          | 20                               | 21,000                                      |
| -            | -            | -                         | 3,000                                              | -                                                 | 20                                          | 14                               | 14,700                                      |
| 250          |              | 650                       | \$59,000                                           |                                                   | 115                                         | 65                               | \$78,450                                    |
| -            | -            | 240                       | 19,000                                             | -                                                 | 40                                          | -                                | 28,680                                      |
| -            | -            | 170                       | 13,000                                             | -                                                 | 22                                          | -                                | 14,450                                      |
|              |              | 410                       | \$32,000                                           |                                                   | 62                                          |                                  | \$43,130                                    |
| -            | -            | -                         | 4,000                                              | -                                                 | 8                                           | 10                               | 4,750                                       |
| -            | 111          | -                         | 2,000                                              | -                                                 | 10                                          | 5                                | 10,000                                      |
|              | 111          |                           | \$6,000                                            |                                                   | 18                                          | 15                               | \$14,750                                    |
| -            | -            | 300                       | 25,200                                             | -                                                 | 44                                          | 8                                | 28,500                                      |
| -            | 10           | -                         | 700                                                | -                                                 | 2                                           | 2                                | 1,000                                       |
|              | 10           | 300                       | \$25,900                                           |                                                   | 46                                          | 10                               | \$29,500                                    |

## DOCUMENT 14.—No. 324.

## RECAPITULATION OF MANUFACTURES IN THE WESTERN DISTRICT OF PENNSYLVANIA.

*Recapitulation of Iron, and Iron Manufactures, in the Western District of Pennsylvania.*

| COUNTIES.      | Capital invested. | Persons employed. | Pig metal. | Blooms. | Castings. | Bar and sheet iron. | Nails. | Steam engines. | Amount of material and payment of wages. | Agricultural productions used. | Wood screws. | Axes.    | Cotton machinery. | Total amount annually manufactured. |
|----------------|-------------------|-------------------|------------|---------|-----------|---------------------|--------|----------------|------------------------------------------|--------------------------------|--------------|----------|-------------------|-------------------------------------|
|                |                   | tons.             | tons.      | tons.   | tons.     | tons.               | tons.  | value.         |                                          |                                | gross.       | No. of.  | value.            |                                     |
| Allegheny      | \$660,700         | 988               | -          | -       | 3,240     | 7,397               | 2,709  | \$250,300      | \$1,133,040                              | -                              | -            | -        | \$14,000          | \$1,591,783                         |
| Armstrong      | 30,000            | 66                | 1,000      | -       | -         | -                   | -      | -              | 8,000                                    | \$12,000                       | -            | -        | -                 | 26,000                              |
| Beaver         | 13,700            | 10                | -          | -       | -         | -                   | -      | -              | 8,000                                    | -                              | -            | -        | -                 | 9,500                               |
| Bedford        | 976,825           | 392               | 1,550      | 2,110   | 45        | 890                 | -      | -              | 273,290                                  | -                              | -            | -        | -                 | 293,000                             |
| Crawford       | 16,000            | 12                | -          | -       | 160       | -                   | -      | -              | 11,000                                   | 2,000                          | -            | -        | -                 | 14,000                              |
| Centre         | 900,500           | 935               | 7,350      | 820     | 390       | 2,600               | -      | -              | 387,880                                  | 38,350                         | 36,000       | 30,000   | -                 | 543,890                             |
| Columbia       | 37,000            | 56                | 300        | -       | 200       | 150                 | -      | -              | 24,500                                   | 8,000                          | -            | -        | -                 | 35,200                              |
| Erie           | 5,000             | 6                 | -          | -       | 40        | -                   | -      | -              | 1,500                                    | 1,200                          | -            | -        | -                 | 3,000                               |
| Fayette        | 271,500           | 473               | 4,100      | 700     | 303       | 195                 | -      | 20,000         | 135,700                                  | 44,450                         | -            | -        | -                 | 245,775                             |
| Huntingdon     | 633,700           | 967               | 7,500      | 3,737   | 250       | 776                 | -      | -              | 405,571                                  | -                              | -            | -        | -                 | 495,872                             |
| Indiana        | 3,000             | 12                | -          | -       | 260       | -                   | -      | -              | 9,325                                    | -                              | -            | -        | -                 | 15,600                              |
| Lycoming       | 67,000            | 115               | -          | 250     | -         | 650                 | -      | -              | 59,000                                   | -                              | -            | -        | -                 | 78,450                              |
| Luzerne        | 20,000            | 46                | -          | -       | 10        | 300                 | -      | -              | 25,900                                   | -                              | -            | -        | -                 | 29,500                              |
| Mifflin        | 108,000           | 182               | 2,800      | 300     | 180       | 50                  | -      | -              | 47,000                                   | -                              | -            | -        | -                 | 98,600                              |
| Northumberland | 7,000             | 18                | -          | -       | 111       | -                   | -      | -              | 6,000                                    | -                              | -            | -        | -                 | 14,750                              |
| Somerset       | 22,000            | 30                | 60         | 3       | -         | 36                  | -      | -              | 3,500                                    | 500                            | -            | -        | -                 | 6,460                               |
| Union          | 28,000            | 62                | 1,300      | -       | 115       | 410                 | -      | -              | 32,000                                   | -                              | -            | -        | -                 | 43,190                              |
| Venango        | 80,600            | 236               | 1,500      | -       | 115       | 230                 | -      | -              | 67,000                                   | 17,711                         | -            | -        | -                 | 84,000                              |
| Washington     | 5,000             | 23                | 900        | -       | 100       | -                   | -      | -              | 18,000                                   | -                              | -            | -        | -                 | 11,000                              |
| Westmoreland   | 30,000            | 40                | -          | -       | 100       | -                   | -      | -              | 18,000                                   | -                              | -            | -        | -                 | 23,000                              |
|                |                   |                   |            |         |           | 15,774              | 2,706  | \$270,300      | \$2,252,104                              | \$184,211                      | \$98,000     | \$90,000 | \$14,000          | \$7,658,408                         |

## DOCUMENT 14.—No. 324—Continued.

*Recapitulation of Salt manufactured in the Western District of Pennsylvania.*

| Counties.    | Capital invested. | Amount of materials and payment of wages. | Number of persons employed. | Number of bushels manufactured. | Total value annually manufactured. |
|--------------|-------------------|-------------------------------------------|-----------------------------|---------------------------------|------------------------------------|
| Alleghany    | \$27,000          | \$13,400                                  | 36                          | 89,500                          | \$37,300                           |
| Armstrong    | 133,000           | 45,700                                    | 176                         | 191,500                         | 69,285                             |
| Butler       | 10,000            | 2,100                                     | 10                          | 13,000                          | 7,800                              |
| Beaver       | 6,000             | 2,400                                     | 7                           | 5,000                           | 3,000                              |
| Indiana      | 46,000            | 13,980                                    | 43                          | 64,300                          | 30,350                             |
| Westmoreland | 46,500            | 12,497                                    | 67                          | 90,700                          | 32,480                             |
|              | \$268,500         | 90,077                                    | 329                         | 454,000                         | \$180,215                          |

*Recapitulation of Woollens manufactured in the Western District of Pennsylvania.*

| Counties.                                                                                                                                                                                              | Capital invested. | Am't of materials and payment of wages. | Total am't annually manufactured. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------|-----------------------------------|
| Alleghany                                                                                                                                                                                              | \$50,000          | \$46,500                                | \$75,900                          |
| Beaver                                                                                                                                                                                                 | 48,300            | 47,000                                  | 100,571                           |
| Bradford                                                                                                                                                                                               | 14,000            | 8,349                                   | 10,406                            |
| Bedford                                                                                                                                                                                                | 8,950             | 270                                     | 2,363                             |
| Crawford                                                                                                                                                                                               | 8,300             | 6,000                                   | 10,000                            |
| Centre                                                                                                                                                                                                 | 9,800             | 5,650                                   | 12,650                            |
| Columbia                                                                                                                                                                                               | 24,300            | 12,600                                  | 16,346                            |
| Erie                                                                                                                                                                                                   | 9,000             | 2,800                                   | 5,200                             |
| Fayette                                                                                                                                                                                                | 17,500            | 15,273                                  | 26,390                            |
| Greene                                                                                                                                                                                                 | 8,000             | 2,000                                   | 6,760                             |
| Huntingdon                                                                                                                                                                                             | 10,300            | 3,400                                   | 4,500                             |
| Indiana                                                                                                                                                                                                | 7,500             | 2,100                                   | 4,200                             |
| Juniatta                                                                                                                                                                                               | 5,000             | 1,100                                   | 750                               |
| Lycoming                                                                                                                                                                                               | 26,500            | 15,043                                  | 19,600                            |
| Luzerne                                                                                                                                                                                                | 14,000            | 7,750                                   | 10,363                            |
| Mercer                                                                                                                                                                                                 | 12,000            | 7,400                                   | 30,000                            |
| Mifflin                                                                                                                                                                                                | 7,000             | 2,100                                   | 3,500                             |
| Somerset                                                                                                                                                                                               | 30,000            | 4,300                                   | 44,900                            |
| Tioga                                                                                                                                                                                                  | 2,300             | 700                                     | 990                               |
| Union                                                                                                                                                                                                  | 6,000             | 2,000                                   | 2,940                             |
| Washington                                                                                                                                                                                             | 23,400            | 20,830                                  | 30,160                            |
| Warren                                                                                                                                                                                                 | 1,300             | 2,000                                   | 6,000                             |
| Westmoreland                                                                                                                                                                                           | 11,500            | 2,900                                   | 4,000                             |
|                                                                                                                                                                                                        | 354,850           | \$217,465                               | \$418,488                         |
| In the following counties there are 41 fulling mills, manufacturing 123,000 yds. of cloth, averaging 75 cts. per yard, amounting to                                                                    |                   |                                         |                                   |
|                                                                                                                                                                                                        | 41,000            | -                                       | 86,100                            |
| Viz. Armstrong, Butler, Jefferson, Venango, Cambria, Clearfield, McKean, Potter, Northumberland, and Susquehanna. The amount of capital invested in those establishments, as here stated, is supposed. |                   |                                         |                                   |
|                                                                                                                                                                                                        | \$395,850         |                                         | \$504,588                         |



## DOCUMENT 14.—No. 324—Continued.

*Recapitulation of Cottons manufactured in the Western District of Pennsylvania.*

| Counties.         | Capital invested. | Am't of materials and payment of wages. | Number of persons employed. | Total value annually manufactured. |
|-------------------|-------------------|-----------------------------------------|-----------------------------|------------------------------------|
| Alleghany - - - - | \$324,000         | \$271,600                               | 568                         | \$306,600                          |
| Beaver - - - -    | 126,000           | 68,400                                  | 78                          | 70,000                             |
| Centre - - - -    | 2,000             | 2,500                                   | 8                           | 4,500                              |
| Fayette - - - -   | 12,000            | 7,000                                   | 28                          | 12,000                             |
|                   | \$464,000         | \$339,500                               | 682                         | \$451,100                          |

*Recapitulation of Glass manufactured in the Western District of Pennsylvania.*

| Counties.       | Capital invested. | Am't of materials and payment of wages. | Am't of agricultural productions used. | Number of persons employed. | Total value annually manufactured. |
|-----------------|-------------------|-----------------------------------------|----------------------------------------|-----------------------------|------------------------------------|
| Alleghany - - - | \$148,000         | \$152,450                               | -                                      | 197                         | \$185,000                          |
| Fayette - - -   | 46,500            | 58,450                                  | \$5,400                                | 111                         | 68,500                             |
| Greene - - -    | 8,000             | 10,000                                  | 4,000                                  | 28                          | 16,000                             |
|                 | \$202,500         | \$218,900                               | \$9,400                                | 336                         | \$269,500                          |

*Recapitulation of Paper manufactured in the Western District of Pennsylvania.*

| Counties.       | Capital invested. | Am't of materials and payment of wages. | Agricultural productions. | Number of reams of paper annually manufactured. | Number of persons employed. | Total value annually manufactured. |
|-----------------|-------------------|-----------------------------------------|---------------------------|-------------------------------------------------|-----------------------------|------------------------------------|
| Alleghany - - - | \$80,000          | \$60,800                                | -                         | \$29,400                                        | 215                         | \$71,500                           |
| Beaver - - -    | 19,000            | 6,800                                   | -                         | 7,000                                           | 38                          | 15,000                             |
| Crawford - - -  | 16,000            | 3,122                                   | 1,122                     | 5,000                                           | 11                          | 9,000                              |
| Columbia - - -  | 21,000            | 6,000                                   | -                         | 1,900                                           | 15                          | 6,500                              |
| Erie - - -      | 6,000             | -                                       | -                         | 3,300                                           | 11                          | 10,000                             |
| Fayette - - -   | 20,000            | 15,427                                  | 5,860                     | 6,600                                           | 63                          | 20,000                             |
| Huntingdon - -  | 3,000             | -                                       | -                         | 1,650                                           | 8                           | 5,500                              |
| Luzerne - - -   | 5,000             | 3,250                                   | -                         | 1,500                                           | 11                          | 4,500                              |
| Somerset - - -  | 3,000             | -                                       | -                         | 1,600                                           | 8                           | 5,500                              |
| Westmoreland -  | 9,000             | 10,000                                  | 5,000                     | 5,000                                           | 20                          | 15,000                             |
|                 | \$182,000         | \$105,399                               | \$11,982                  | \$62,950                                        | 400                         | \$161,000                          |

## DOCUMENT 14.—No. 324—Continued.

*Recapitulation of Manufactures in the Western District of Pennsylvania.*

| Counties.   | LEATHER.                                  |                             |                                    | SADDLES, BRIDLES, AND HARNESS. |                             |                                    |
|-------------|-------------------------------------------|-----------------------------|------------------------------------|--------------------------------|-----------------------------|------------------------------------|
|             | Capital invested in ground and buildings. | Number of persons employed. | Total value annually manufactured. | Capital invested.              | Number of persons employed. | Total value annually manufactured. |
| Allegheny   | \$150,000                                 | 160                         | \$182,200                          | \$144,000                      | 169                         | \$168,900                          |
| Armstrong   | 6,900                                     | 15                          | 7,770                              | 3,400                          | -                           | 4,000                              |
| Beaver      | 3,300                                     | 6                           | 3,500                              | 2,500                          | -                           | 3,800                              |
| Berks       | 7,300                                     | 10                          | 14,200                             | 3,400                          | -                           | 4,900                              |
| Bloomfield  | 17,000                                    | 31                          | 24,500                             | 6,700                          | -                           | 8,000                              |
| Butler      | 19,000                                    | 40                          | 24,300                             | 5,500                          | -                           | 7,000                              |
| Cameron     | 18,000                                    | 36                          | 26,000                             | 6,400                          | -                           | 8,620                              |
| Clarke      | 5,600                                     | 14                          | 7,800                              | 4,600                          | -                           | 3,500                              |
| Crawford    | 4,000                                     | 8                           | 7,000                              | 1,500                          | -                           | 3,000                              |
| Cumberland  | 21,000                                    | 45                          | 30,500                             | 15,000                         | -                           | 14,500                             |
| DeWitt      | 16,000                                    | 32                          | 19,000                             | 1,700                          | -                           | 3,400                              |
| Elk         | 11,000                                    | 27                          | 16,000                             | 3,000                          | -                           | 3,700                              |
| Fayette     | 19,500                                    | 41                          | 21,500                             | 6,300                          | -                           | 8,500                              |
| Franklin    | 45,000                                    | 63                          | 38,000                             | 6,000                          | -                           | 10,400                             |
| Gallatin    | 37,300                                    | 71                          | 49,400                             | 30,000                         | -                           | 27,500                             |
| Greene      | 20,000                                    | 53                          | 30,000                             | 3,000                          | -                           | 4,000                              |
| Harrison    | 2,000                                     | 3                           | 1,650                              | 1,600                          | -                           | 1,900                              |
| Indiana     | 7,500                                     | 12                          | 10,400                             | 1,800                          | -                           | 2,400                              |
| Jefferson   | 17,000                                    | 33                          | 23,500                             | 10,500                         | -                           | 11,000                             |
| Lawrence    | 26,500                                    | 50                          | 32,400                             | 8,300                          | -                           | 9,500                              |
| Lebanon     | 14,500                                    | 32                          | 18,000                             | 15,000                         | -                           | 13,700                             |
| Madison     | 3,250                                     | 6                           | 4,900                              | 700                            | -                           | 1,300                              |
| Monroe      | 15,700                                    | 29                          | 24,300                             | 5,300                          | -                           | 8,300                              |
| Morgan      | 20,000                                    | 40                          | 30,500                             | 9,000                          | -                           | 10,300                             |
| Muskegon    | 2,550                                     | 5                           | 3,700                              | 1,000                          | -                           | 1,400                              |
| Nichols     | 16,000                                    | 31                          | 24,305                             | 3,000                          | -                           | 3,980                              |
| Northampton | 15,700                                    | 30                          | 26,500                             | 12,000                         | -                           | 14,900                             |
| Onondaga    | 9,000                                     | 19                          | 15,500                             | 1,700                          | -                           | 2,800                              |
| Orleans     | 28,000                                    | 48                          | 37,500                             | 7,000                          | -                           | 6,500                              |
| Rockland    | 8,000                                     | 17                          | 15,400                             | 1,700                          | -                           | 2,100                              |
| Saratoga    | 51,000                                    | 70                          | 50,000                             | 4,150                          | -                           | 13,158                             |
| Schoharie   | 60,935                                    | 65                          | 46,405                             | 5,970                          | -                           | 13,175                             |
| Schenectady | 1,000                                     | 7                           | 6,000                              | 2,600                          | -                           | 4,100                              |
|             | \$698,735                                 | 1,149                       | \$872,730                          | \$334,320                      | 169                         | \$396,813                          |

## DOCUMENT 14.—No. 324—Continued.

*Recapitulation of Manufactures in the Western District of Pennsylvania.*

| Counties.      | BOOTS AND SHOES.  |                                                                            |                             |                                    | HATS.             |                                                                            |                                    |
|----------------|-------------------|----------------------------------------------------------------------------|-----------------------------|------------------------------------|-------------------|----------------------------------------------------------------------------|------------------------------------|
|                | Capital invested. | Am't of materials, and in cash for the purchase, &c. and payment of wages. | Number of persons employed. | Total value annually manufactured. | Capital invested. | Am't of materials, and in cash for the purchase, &c. and payment of wages. | Total value annually manufactured. |
| Alleghany      | -                 | \$59,960                                                                   | 265                         | \$99,550                           | \$31,000          | -                                                                          | \$59,000                           |
| Armstrong      | \$3,200           | -                                                                          | -                           | 4,200                              | 3,500             | -                                                                          | 5,000                              |
| Beaver         | 2,800             | -                                                                          | -                           | 8,200                              | 2,000             | -                                                                          | 10,000                             |
| Butler         | 3,000             | -                                                                          | -                           | 4,000                              | 4,000             | -                                                                          | 7,000                              |
| Bedford        | 8,000             | -                                                                          | -                           | 11,800                             | 6,000             | -                                                                          | 3,000                              |
| Bradford       | 4,200             | -                                                                          | -                           | 5,300                              | 5,000             | \$2,300                                                                    | 4,000                              |
| Centre         | 4,900             | -                                                                          | -                           | 6,000                              | 5,800             | -                                                                          | 7,000                              |
| Clearfield     | 2,600             | -                                                                          | -                           | 3,200                              | 2,000             | -                                                                          | 3,000                              |
| Cambria        | 2,000             | -                                                                          | -                           | 2,500                              | 4,000             | -                                                                          | 5,000                              |
| Columbia       | 5,000             | -                                                                          | -                           | 4,800                              | 6,000             | 3,900                                                                      | 6,000                              |
| Crawford       | 5,400             | -                                                                          | -                           | 10,800                             | 5,800             | -                                                                          | 11,700                             |
| Erie           | 2,500             | -                                                                          | -                           | 3,800                              | 8,600             | -                                                                          | 9,000                              |
| Fayette        | 6,500             | -                                                                          | -                           | 11,000                             | 7,300             | -                                                                          | 9,000                              |
| Greene         | 6,500             | -                                                                          | -                           | 15,000                             | 7,000             | -                                                                          | 11,000                             |
| Huntingdon     | 6,000             | -                                                                          | -                           | 9,000                              | 16,000            | 9,500                                                                      | 10,000                             |
| Indiana        | 5,000             | -                                                                          | -                           | 8,000                              | 5,000             | -                                                                          | 7,000                              |
| Jefferson      | 1,800             | -                                                                          | -                           | 2,300                              | 1,750             | -                                                                          | 2,000                              |
| Juniatta       | 4,000             | -                                                                          | -                           | 3,980                              | 1,700             | 800                                                                        | 1,700                              |
| Luzerne        | 3,900             | -                                                                          | -                           | 4,800                              | 3,200             | 2,700                                                                      | 4,000                              |
| Lycoming       | 15,400            | -                                                                          | -                           | 17,000                             | 6,700             | 3,000                                                                      | 5,000                              |
| Mifflin        | 11,300            | -                                                                          | -                           | 14,200                             | 6,500             | 3,500                                                                      | 4,000                              |
| McKean         | 2,500             | -                                                                          | -                           | 3,300                              | 3,000             | -                                                                          | 3,000                              |
| Mercer         | 5,000             | -                                                                          | -                           | 8,650                              | 5,000             | -                                                                          | 8,000                              |
| Northumberland | 14,600            | -                                                                          | -                           | 17,000                             | 15,000            | -                                                                          | 17,000                             |
| Potter         | 2,000             | -                                                                          | -                           | 3,500                              | 1,000             | -                                                                          | 1,500                              |
| Somerset       | 3,000             | -                                                                          | -                           | 4,585                              | 10,000            | -                                                                          | 11,000                             |
| Susquehanna    | 9,000             | -                                                                          | -                           | 11,000                             | 8,300             | 5,400                                                                      | 9,000                              |
| Tioga          | 3,500             | -                                                                          | -                           | 5,000                              | 1,800             | -                                                                          | 1,300                              |
| Union          | 11,000            | -                                                                          | -                           | 15,000                             | 9,300             | -                                                                          | 9,000                              |
| Venango        | 2,000             | -                                                                          | -                           | 3,500                              | 1,500             | -                                                                          | 2,000                              |
| Washington     | 17,925            | -                                                                          | -                           | 18,970                             | 20,800            | -                                                                          | 20,750                             |
| Westmoreland   | 3,865             | -                                                                          | -                           | 25,095                             | 9,355             | -                                                                          | 10,000                             |
| Warren         | 1,000             | -                                                                          | -                           | 6,000                              | 1,900             | -                                                                          | 1,500                              |
|                | \$179,390         | \$59,960                                                                   | 265                         | \$370,930                          | \$224,705         | \$31,000                                                                   | \$33,500                           |

# MANUFACTURES.

## RETURNS FROM THE STATE OF DELAWARE.

### DOCUMENT 15.—No. 1.

NEWARK, *April 24th*, 1832.

SIR: I have at length, after the most assiduous application, during a period of between two and three weeks, brought my labors to a close in condensing the information respecting manufactures (so far as it is statistical,) embraced in the answers to the queries proposed in your circular addressed to me in February last. I could do nothing until the forms with the answers to the queries came in; after which I lost no time in commencing my report. I began with those from Kent and Sussex, having received them first; and my first step was to arrange the manufacturers and mechanics in classes as far as it could be done. Then I formed tables, with columns, and headed them so as to correspond with the queries, the answers to which I designed to enter therein. The modification and entry of these was tedious and perplexing, owing to the calculations I had to make, and the different manner in which the answers were made out. In the answers, too, materials were sometimes put for the manufactured articles, and the latter for the former, which rendered transposition necessary. These difficulties were experienced to the greatest extent in arranging and adjusting the returns for Newcastle county. The mass of matter presented was chaotic, and it was impossible to bring order, method, and accuracy out of what was so deficient in these respects. I have not been wanting in exertion, however, to arrive as near as was practicable at this result in my tabular statements.

After all the trouble and expense incurred in distributing the forms containing the queries among the manufacturers and mechanics, there is a long list of them who have returned no answers; which list is transmitted herewith. Some of them, my assistant, Mr. W. Mendenhall, informed me, appeared indifferent about answering, while others were under an apprehension that the object in view was an assessment of their property with a view to taxing them. To all the task of appending answers to so many queries appeared more or less appalling, some not knowing how to go about it, while others were unwilling to encounter the trouble of doing it.

You will find, in looking over the queries in the circulars, that very few have answers appended to them. The queries in a small number of the circulars are, however, pretty fully and satisfactorily answered. They have been so answered by E. J. Dupont, Charles J. Dupont, Jacob Pusey, the Petersons, tanners, near Smyrna, and M. E. Waples, iron master, of Sussex county. The forms containing their answers I have selected and separated from the rest, that your attention may be more particularly directed to them.

You will observe, on reading the answers in all the circulars, that to the manufacturers and mechanics the idea of reducing the duties is alarming. They are under the impression that any material reduction would cause them to abandon the branches of manufacturing and mechanical industry in which they are respectively engaged; that this would be attended with an entire sacrifice of capital vested in their factories and machinery; and that, being obliged to abandon the business they understand, they would be at a loss to determine on what they should next pursue, having no capital left to begin with, nor skill in other occupations.

You will perceive, also, on examining the answers, that of late years household manufactures have increased.

It will be seen by one of the answers of Mr. E. J. Dupont, that he is of opinion that protective duties, when they have fulfilled their end in diminishing the importation of, or in expelling altogether, foreign articles similar to domestic fabrics protected, and have thereby become unproductive and inoperative as taxes, ought to be still retained. In the reasons he assigns in support of his opinion I concur, as you will find when you come to peruse the communication I have prepared (by your request) to accompany this report. I shall transmit it to the department as soon as I can have a fair copy transcribed, which will require three or four days, the production being of considerable length. It was ready, all to copying, before I commenced the report.

In one of the answers of Mahlen Betts, who works an iron foundry at Wilmington, there is a suggestion respecting the danger of competition between imported iron and iron manufactured in parts of the country far distant from the points of importation, by reason of the increased facilities of transportation produced by canals and railroads already constructed and constructing, which has my approbation; and merits, I think, your attention. You will see my sentiments on the subject expressed in the communication.

I have to observe, in regard to the opinion and suggestion adverted to, that there has been no interchange of sentiment between the authors of them and myself, my communication having been penned before I had an opportunity of seeing the answers.

I shall transmit to the Department accounts of the expenses incurred by myself and assistants, and the compensations allowed to the latter, as soon as they can be prepared.

I have the honor to be,

With great respect,

Your obedient servant,

ANDREW GRAY.

Hon. LOUIS McLANE.

*'Names of Manufacturers who were called upon, but have made no return.*

Allan Wood, iron roller.

Rockland Manufacturing Company, cotton spinners.

Lewis Sachrist, woollen manufacturer.

Samuel Meeteer, paper maker.

Samuel Johnson, woollen manufacturer.

Philip Raybold, brick maker.

Swift, Brick, and Swift, cotton spinners.

Gilpin & Co., paper makers, (*declined answering.*)

—— Bancroft, cotton spinner, (*answered Gilpin.*)

Samuel Pool, flour merchant, (*declined answering.*)

Samuel Shipley, flour merchant, (*declined answering.*)

James Canby, flour merchant, (*answered Gilpin.*)

Branch Green, potter.

J. P. Garesche, powder maker, (*answered Gilpin.*)

John Stafford, cotton spinner.

James Graig, miller.

Levi Garrett, and Isaac Jones, snuff manufacturers; mills closed.

Esau Cox, brick maker.

Clark and Robinson, hatters.

Isaac Jackson, tanner.

V. McNeal, shoemaker.

William H. Crawford, manufacturer of quercitron bark.

Thomas Moore, carriage maker.

—— Farra, miller.

Samuel McCaulley, brick maker.

*A General and Condensed View of the information obtained in relation to Manufactures in each of the Counties of New Castle, Kent, and Sussex, in the State of Delaware.*

[ Doc. No. 908. ]

33

NEWCASTLE COUNTY.

| Manufactures.                                                                                                                                             | Capital invested in ground, buildings, water power, and machinery. | Average am't in materials, and cash for the purchase of materials and payment of wages. | Amount of articles annually manufactured. | Quantity.   | Number of men, women, and children employed. | No. of draught animals employed. |       | Amount of agricultural products, and other domestic productions consumed. | Value.* |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------|-------------|----------------------------------------------|----------------------------------|-------|---------------------------------------------------------------------------|---------|
|                                                                                                                                                           |                                                                    |                                                                                         |                                           |             |                                              | Horses.                          | Oxen. |                                                                           |         |
| No. 1. Cotton and woollen manufactures and powder                                                                                                         | \$452,392                                                          | \$189,339                                                                               | \$347,682                                 | -           | 612                                          | 23                               | -     | -                                                                         | \$2,000 |
| No. 2. Machinists; boot, shoe, and trunk makers; rope maker; chocolate and spice manufactory; coach maker; paper maker; saddle, harness, and trunk makers | 49,800                                                             | 38,650                                                                                  | 36,250                                    | -           | 122                                          | 4                                | -     | 60 bla. flour                                                             | 300     |
| No. 3. Hatters; tallow chandlers; iron founders; iron and tin plate manufacturers; brick makers; brick makers and lime burners                            | 139,850                                                            | 73,720                                                                                  | 90,100                                    | -           | 153                                          | 55                               | 11    | -                                                                         | -       |
| No. 4. Tanners; curriers and quercitron bark grinders                                                                                                     | 33,000                                                             | 50,396                                                                                  | 60,800                                    | -           | 37                                           | 9                                | -     | -                                                                         | 500     |
| No. 5. Flour, meal, bark, and lumber                                                                                                                      | 155,100                                                            | 168,099                                                                                 | 485,692                                   | 589,800 bu. | 124                                          | 41                               | 6     | -                                                                         | 300     |
| Aggregate                                                                                                                                                 | \$830,142                                                          | \$520,204                                                                               | \$1,020,524                               | 589,800 bu. | 1,048                                        | 132                              | 17    | -                                                                         | \$3,130 |

\* Returns under this head very imperfect.

DECEMBER 15.—No. 2—Continued.

## KENT COUNTY.

| Manufactures.                                    | Capital. | Capital invested in<br>ground, buildings,<br>water power, and<br>machinery. | Average amt. in ma-<br>terials, and in cash<br>for the purchase of<br>materials and pay-<br>ment of wages. | Amount of articles<br>annually manufac-<br>tured. | Number of<br>workmen. | Wages.  | No. of draught<br>animals employ-<br>ed. |       | Profits.  | Value of<br>agricul-<br>tural and<br>domestic<br>products<br>consum-<br>ed. |
|--------------------------------------------------|----------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------|---------|------------------------------------------|-------|-----------|-----------------------------------------------------------------------------|
|                                                  |          |                                                                             |                                                                                                            |                                                   |                       |         | Horse.                                   | Oxen. |           |                                                                             |
| Tanners                                          | \$9,000  | \$14,500                                                                    | \$44,500                                                                                                   | \$97,100                                          | 34, & 2 boys          | \$5,230 | 11                                       | 2     | \$550     | \$8,700                                                                     |
| Manufacturers of quercitron bark                 | -        | 11,000                                                                      | 18,600                                                                                                     | 60,000                                            | 50                    | 12,650  | 17                                       | -     | -         | 9,659                                                                       |
| Manufacturers of querc. bark and lintseed<br>oil | -        | 3,000                                                                       | 5,400                                                                                                      | 7,600                                             | 10                    | 1,800   | -                                        | -     | -         | -                                                                           |
| Manufactures of wool and black oak bark          | -        | 6,600                                                                       | 300                                                                                                        | 1,200                                             | 1                     | 120     | 3                                        | -     | 6 per ct. | -                                                                           |
| Aggregate                                        | -        | 35,100                                                                      | 68,200                                                                                                     | 165,800                                           | 95, 2 "               | 19,800  | 31                                       | 2     | -         | \$18,350                                                                    |

| Manufactures. | Quantity of ore raised. | Capital invested in ground, buildings, water power, and machinery. | Average amt. in materials, etc., cash for the purchase of materials, etc. | Amount of articles annually manufactured. | Value of different kinds of raw materials used. | Persons employed. |       | Number of draught animals employed. |        |       | Quantity and value of agricultural and domestic products consumed. |       |         | Wages.   | Profit. |
|---------------|-------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------|-------------------|-------|-------------------------------------|--------|-------|--------------------------------------------------------------------|-------|---------|----------|---------|
|               |                         |                                                                    |                                                                           |                                           |                                                 | Men.              | Boys. | Horses.                             | Mules. | Oxen. | Bushels.                                                           | lbs.  | Value.  |          |         |
| Iron masters  | -                       | \$18,500                                                           | \$25,820                                                                  | \$25,000                                  | \$24,060                                        | 75                | 10    | 30                                  | 35     | -     | 1,350                                                              | 2,250 | -       | \$13,410 | -       |
| Ore raisers   | 2,500 tons              | -                                                                  | 7,000                                                                     | -                                         | -                                               | 60                | -     | 50                                  | -      | 100   | -                                                                  | -     | \$4,250 | -        | -       |
| Tanners       | -                       | 3,350                                                              | 24,384                                                                    | 15,000                                    | -                                               | 14                | 2     | 7                                   | -      | -     | -                                                                  | -     | -700    | -        | \$7,650 |
| Aggregate     | 2,500 tons              | \$21,850                                                           | \$37,204                                                                  | \$40,000                                  | \$24,060                                        | 149               | 12    | 87                                  | 35     | 100   | 1,350                                                              | 2,250 | \$4,950 | \$13,410 | \$7,650 |



## DOCUMENT 15.—No. 3.

*Powder Manufactory, Newcastle County, State of Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. State of Delaware, Newcastle county.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Gunpowder; water power.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. In 1804: several partners.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. The manufactory having been gradually and progressively enlarged, out of its profits, ever since its establishment, the whole amount of capital invested cannot be calculated; the present value of the land, buildings, water power, and machinery, may be estimated at \$80,000. This estimate is based on the supposition of a continuation of the prosperity of the country; should the protection be withdrawn, American labor must take its level with the labor of the manufacturing countries in Europe, and the value of American produce and raw materials must fall in the same proportion. |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. The average amount of capital embodied as stock in trade, comprehending the materials on hand and purchased at credit from the importers, is estimated at \$100,000. The materials purchased at a credit have been included in this estimate, being an important item in the necessary means for the carrying on of the manufactory, and being, in fact, a part of the capital involved, no matter to whom it belongs.                                                                                                                                                                                 |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. As stated in answer to query No. 4, a large portion of the profits has been applied to the increase of the establishment and to secure its permanency by improvements, from which the annual rate of its profits cannot be calculated. A large proportion of the profits have been sunk in re-building the works after extensive explosions. The rate of profit should be the same on capital borrowed or not borrowed: the real capital as well as the borrowed is entitled to interest before any part of the proceeds can be called profit.                                                         |
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                                | 7. The price of gunpowder in the United States being, at this time, entirely regulated by the great competition existing between the American manufacturers; the only causes of increase or decrease of profit, or of loss, consist in the degree of skill of the manufacturer, and the proper management of the business.                                                                                                                                                                                                                                                                                |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. We do not know.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. The amount of gunpowder manufactured annually by us is, at this time, about 850,000 pounds. The quantity made since the establishment of the manufactory to the present time is about 13,400,000 pounds.                                                                                                                                                                                                                                                                                                                                                                                               |

## DOCUMENT 15.—No. 3—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Quantity and value of different kinds raw materials used; distinguishing between foreign products and domestic products?                                                                                                                               | 10. The quantity of materials used is about 400 tons of crude saltpetre, imported from India; 50 tons of brimstone, from France or Italy; and 300 cords of wood for charcoal. The cost of saltpetre is, at this time, about 7½ cents per pound; brimstone, 2½ to 3 cents.                                                                                                                                                            |
| 1. Cost in the United States of similar articles of manufacture imported from abroad, from what countries?                                                                                                                                                | 11. We do not know.                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                          | 12. About 140 men working in the mills, laborers, carters, coopers, &c., &c., &c.                                                                                                                                                                                                                                                                                                                                                    |
| 3. How many hours a day employed; what portion of the year?                                                                                                                                                                                               | 13. Twelve hours in summer and nine in winter, averaging, during the year, eleven hours per day.                                                                                                                                                                                                                                                                                                                                     |
| 4. Rate of wages of similar classes otherwise employed in the same State and county, other States, and in foreign countries?                                                                                                                              | 14. We do not know.                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 5. Number of horses or other animals employed?                                                                                                                                                                                                            | 15. Two teams of five horses each for the hauling of materials and produce, and several horses for other purposes.                                                                                                                                                                                                                                                                                                                   |
| 6. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                  | 16. The manufactured articles are sold on the orders of customers, or sent to agents for sale in different parts of the United States.                                                                                                                                                                                                                                                                                               |
| 7. Whether foreign articles of the like kind enter into competition with them at the place of sale; and to what extent?                                                                                                                                   | 17. At the time of the establishment of our manufactory in 1804, the country was supplied almost entirely from England and Holland. At this time we do not know of any foreign importation, except at Boston, and that to a trifling amount.                                                                                                                                                                                         |
| 8. Where are the manufactures consumed?                                                                                                                                                                                                                   | 18. Entirely for home consumption in the United States.                                                                                                                                                                                                                                                                                                                                                                              |
| 9. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                   | 19. None from our manufactory, but a large quantity of gunpowder is manufactured in the United States for exportation to the West Indies, South America, and the western coast. The quantity exported annually is about 1,900,000 pounds.                                                                                                                                                                                            |
| 10. Whether the manufactory is sold by the manufacturer for cash? and if on credit, what credit? if bartered, for what?                                                                                                                                   | 20. A portion of the sales are made for cash; the rest on a credit of 4 to 6 months.                                                                                                                                                                                                                                                                                                                                                 |
| 1. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. The variations in the cost of materials have been great since the establishment of the manufactory. Saltpetre from 40 cents per pound, at one time, to 5 cents at another; brimstone from 12 cents to 2. The cost of the manufactured article has been gradually and considerably decreased by improvements in the process of manufacturing, and by the introduction of machinery.                                               |
| 2. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                       | 22. At the time of the establishment of our manufactory, the country was, as stated before, supplied principally with imported gunpowder. The importers had then the regulation of the price, which kept steady for years, at 40 cents per pound. During 1804 and 1805 our powder brought the same price, say 40 cents. In 1806 American competition began to be felt, and the price was reduced to 36 cents; in 1807, from the same |

| QUESTIONS.                                                                                                                                                                                                                | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?</p>                                                                         | <p>cause, it fell to 34 and 32. During the war, the scarcity and high price of materials, and the extent of the demands, raised the price gradually to 44, 60, and 72 cents. A number of large manufactures having then been put in operation, the price during the last year of the war was reduced to 56 cents. Extensive home competition has since reduced the price of our powder to be at this time from 16 to 20 cents; and inferior powder, for blasting and for exportation, sells as low as 12 to 14 cents per pound.</p>                                                                                                                                                                                                                                                                                                                                                                                         |
| <p>24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?</p>                                                                                                                   | <p>23. The encouragement given to the manufacture of gunpowder by the war, and the protection it has received from the tariff, have placed the home market entirely in the hands of the American manufacturers, and made gunpowder an article of exportation. The price of saltpetre is now higher in England than in the U. S., and powder could not be imported at this time, even duty free; the duty is consequently merely nominal—nobody pays it; but, nevertheless, the present high duty is indispensable for the security and permanency of this branch of our manufacture, and as a safeguard to the American manufacturer against the fluctuations of the market in Europe. Were it not for the protective duty our market would occasionally be glutted by immoderate importations; the situation of the American manufacturer would become precarious, and, in some of time, inevitable ruin would follow.</p> |
| <p>25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been con-</p> | <p>24. The duty on gunpowder being specific, is the best kind of duty. The propriety of allowing the drawback on imported powder is, however, doubted; the manufacture of American gunpowder being so extensive as to furnish an annual exportation of about one million of pounds, there could not be any motive to encourage, by the prospect of drawback, an importation of English damaged and low-priced powder, which of late years has not been more than from 50 to 70,000 pounds. Would it not be more to the interest of our commerce to import an adequate quantity of saltpetre from India and brimstone from Italy, the freight of which would exceed the freight on the powder from England, and which would be reported on American accounts, while the powder, in most cases, is sent here by the British owners not finding sale in their own market for a damaged or inferior article.</p>                |
|                                                                                                                                                                                                                           | <p>25. Public interest does not seem, to us, to have any concern in this?</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## DOCUMENT 15.—No. 3—Continued.

## QUESTIONS.

## ANSWERS.

erted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually?

26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?

27. What amount of the agricultural products of the country is consumed in your establishment, and what amount of other domestic productions?

28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?

29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you manufacture at reduced prices?

30. If it would cause you to abandon your business, in what way would you employ your capital?

31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?

32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?

33. Amount of capital; and what proportion the borrowed capital bears to that which is real?

34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent.; and how gradual the reduction should be?

26. The mere cost of materials and amount paid for labor would give a very erroneous idea of the profits of any manufacture. The interest of capital, numerous contingent expenses, the repairs of machinery, the chance of losses, &c., &c., &c., ought also to be calculated.

27. The subsistence of the men employed, and of their families, and of all those indirectly supported from the manufacture, are agricultural productions. The same number of persons manufacturing the article in Europe would not consume a single pound of American produce.

28. We believe the quantity of gunpowder manufactured annually in the United States to exceed six millions of pounds.

29. We should not abandon our business immediately. The prices of our produce could not, at this time, be reduced by importation. The principal material, saltpetre, being higher in Europe than here. But, as explained in our answer to query No. 23, inevitable ruin would, at some future time, be the consequence of the withdrawing of protection.

30. A capital employed in manufacture consisting principally in water power, buildings, and machinery; the consequence of a reduction of the tariff which would cause the business to be abandoned, would amount to nearly a total loss of the capital.

31. In this case it is difficult to say what would be best to do; if protection be withdrawn a great change will take place in commercial and agricultural business as well as in manufactures.

32. The circle within which the manufacturers of salt and iron, remote from the point of importation, are secured against foreign competition, cannot be specified; when the manufactures are not protected by sufficient duties, the circle extends or contracts in proportion to the fluctuations of the European market, or in consequence of the manufacturers in Europe overtrading themselves, as has been of late the case in England for the manufacture of iron.

33. It makes no difference if the capital involved in a manufactory is borrowed or not: the capital is there, and subject to all risks, no matter who owns it.

34. Besides the 6 per cent. for interest, a capital employed in manufacture must produce enough to keep the works and machinery in repairs, and to insure against fire and

## DOCUMENT 15.—No. 3.—Continued.

| QUESTIONS.                                                                                                                                                                                                     | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| 35. If minimums should be abolished, and the duty assessed upon the real value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum? | against bad debts; otherwise the business would soon be at an end. It must be left to the manufacturer a reasonable compensation for his industry. Any one can run on capital at 6 per cent., and enjoy a much easier life than that of a manufacturer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                                            | 35. If the actual value of the imported article in the American port could be fairly established, it would most assuredly be a preferable base for the assessment of duty to the present system of fabricated invoices. It would, however, have the effect of raising the duty in case of over-large importations, and of increasing it when the market would be bare. Cash duties would be the most salutary change, as it would prevent the ruinous of all importations, those made in account of British merchants or manufacturers, who are induced by the credit duties to send here any article of which the sale at home would be injurious to their own market, and which they had better export, no matter what price it will bring. |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                    | 36. See answer No. 35.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 38. Extent of individual or household manufacture in the United States, and how much it has increased since the tariff of 1824?                                                                                | 37. Almost the whole consumption of gunpowder in the United States is supplied from American manufacture; the small quantity imported being principally requested for the sake of drawback.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 39. Average profit of money or capital in the United States?                                                                                                                                                   | 38. We do not know.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 40. Average rate of wages?                                                                                                                                                                                     | 39. We do not know.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                | 40. We do not know.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

E. J. DUPONT DE NEMOURS &amp; Co.

ELEUTHERIAN MILLS, April 12th, 1832.

## DOCUMENT 15.—No. 4.

Ch. J. Dupont &amp; Co's Woollen Manufactory, New Castle County, Delaware.

| QUESTIONS.                                                                           | ANSWERS.                                 |
|--------------------------------------------------------------------------------------|------------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. State of Delaware, New Castle county. |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. Woollen, water power.                 |
| 3. When established; and whether a joint stock concern?                              | 3. In 1811; not a joint stock concern.   |

## DOCUMENT 15.—No. 4—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4. Capital invested in ground and buildings, and water power, and machinery?                                                                                                                                                                                                                         | 4. Fifty thousand dollars.                                                                                                                                                                                                                                                                                                                                                                  |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. Thirty thousand dollars.                                                                                                                                                                                                                                                                                                                                                                 |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. No profit.                                                                                                                                                                                                                                                                                                                                                                               |
| 7. Cause of the increase (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                               | 7. Annual reduction in the manufactured articles; caused by overtrading of English manufacturers, frauds on the revenue, and the facility afforded by the Government, by allowing credits on duties.                                                                                                                                                                                        |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Supposed to exceed 6 per cent., as the banks loan their capitals at that rate of interest to merchants, agriculturists, and others.                                                                                                                                                                                                                                                      |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. Fifty-two thousand dollars; broadcloths, kerseys, and satinets: quality and value vary yearly.                                                                                                                                                                                                                                                                                           |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. 60,000 lbs. of wool, 2,500 lbs. of indigo, 1,500 lbs. of glue, madder, alum, copperas and chemicals, dye-woods, &c.: value in American products, over 80 per cent. on the amount manufactured.                                                                                                                                                                                          |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. Foreign articles are reduced in value when they find a similar article of American manufacture to compete with it in the market. Cloths of the description manufactured here have fallen considerably, whilst superfine cloths are sold for nearly the same they did ten years ago. Flannels being extensively manufactured in the United States, have fallen more than fifty per cent. |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. Sixty persons; men \$20 per month, women \$8, and children \$6.                                                                                                                                                                                                                                                                                                                         |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                     | 13. Twelve hours per day, throughout the year.                                                                                                                                                                                                                                                                                                                                              |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 14. Supposed to be equal to those employed at factories. In England the persons receive a portion of their support from the poor rates. Men's wages said to be fifty per cent. less, the wages of women and children nearly equal the amount paid here, as there is greater diversity of employment for them.                                                                               |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. Three horses.                                                                                                                                                                                                                                                                                                                                                                           |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                                                            | 16. In Philadelphia and Baltimore; thence to the south and west.                                                                                                                                                                                                                                                                                                                            |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                           | 17. Foreign articles do enter into competition.                                                                                                                                                                                                                                                                                                                                             |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. In the United States.                                                                                                                                                                                                                                                                                                                                                                   |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                                                                                                     |
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| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                                                                   | 19. Are not exported.                                                                                                                                                                                                                                                                                        |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Sold at six and eight months' credit; are usually four months in the hands of agents; the returns are seldom received under twelve months.                                                                                                                                                               |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                 | 21. The cost of manufactured articles has diminished considerably by the introduction of improved machinery, the last four years the price of the raw material has varied yearly.                                                                                                                            |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. Cannot answer. Articles vary in weight, color, and quality. It would be impossible to estimate exactly the relative value of cloths made since the commencement of the establishment. The description of woollen manufactures in the United States have fallen 30 per cent. since the tariff of 1816.    |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. The present duties are thought to be sufficient, if properly enforced.                                                                                                                                                                                                                                   |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. Think if the duties were paid in cash before the goods leave the custom-house, it would check overtrading.                                                                                                                                                                                               |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. See answer to question 6.                                                                                                                                                                                                                                                                                |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. The price of the raw material is generally considered one-half of the value produced; one-quarter is paid in wages, one-quarter in interest on capital employed, out of coloring, commissions and guarantee in sales, insurance, fuel, light, and wear and tear of machinery.                            |
| 27. What amount of the agricultural products of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                              | 27. Above eighty per cent. on the value.                                                                                                                                                                                                                                                                     |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                       | 28. See report on wool and woollens, if the New York Convention, which is supposed to be a moderate estimate of the capital employed.                                                                                                                                                                        |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you manufacture at reduced prices?                                                                                | 29. The woollen manufacture would cease to be pursued in the United States: the property thus vested in buildings and machinery would pass into other hands at an immense sacrifice, and the consumers of woollen goods be at the mercy of English agents, who would have the entire control of the markets. |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. Our capital being invested in water power and fixtures, would be totally lost, if forced to abandon the business.                                                                                                                                                                                        |

## DOCUMENT 15.—No. 4—Continued.

| QUESTIONS.                                                                                                                                                                                    | ANSWERS.                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Is there any pursuit in which you could engage, from which you could derive greater gain even after a reduction of the import to 12½ per cent?                                                | 31. Having no disposable capital left, would not seek other pursuits.                                                                                                                        |
| Are not the manufactures of salt and remote from the points of importation, of foreign competition within a certain circle around them, and what is the extent at circle?                     | 32. Cannot answer.                                                                                                                                                                           |
| Amount of capital; and what proportion the borrowed capital bears to that which is all?                                                                                                       | 33. See questions 4 & 5: think it not relevant: the capital might be all borrowed, and should be entitled to the same protection whether owned by the persons engaged at the factory or not. |
| What amount of reduction in the duty would enable the actual or real capital employed to yield an interest of 6 per cent, how gradual the reduction should be?                                | 34. Cannot say. Capital invested in the woollen business, with the present evasion of the tariff, does not yield six per cent.                                                               |
| If minimums should be abolished, and duty assessed upon the real value of the imported article in the American port, what of ad valorem duty would be equivalent to present with the minimum? | 35. The minimums are evaded; do not know to what extent.                                                                                                                                     |
| What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                               | 36. Cannot answer.                                                                                                                                                                           |
| Proportion which the production by American manufacturer bears to the consumption?                                                                                                            | 37. Suppose the American production of manufactured articles of all kinds to be triple the amount imported.                                                                                  |
| Extent of individual and household manufacture in the United States, and how much is increased since the tariff of 1824?                                                                      | 38. Uninformed on the subject.                                                                                                                                                               |
| Average profit of money or capital in United States?                                                                                                                                          | 39. Cannot answer.                                                                                                                                                                           |
| Average rate of wages?                                                                                                                                                                        | 40. Uninformed on the subject.                                                                                                                                                               |

## DOCUMENT 15.—No. 5.

*Cotton Manufactory, Newcastle County, State of Delaware.*

| QUESTIONS.                                                                                   | ANSWERS.                                                                                                                                           |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| State and county in which the manufactory is situated?                                       | 1. Delaware State, Newcastle county.                                                                                                               |
| Kind or description of the manufactory; whether water, steam, or other power?                | 2. Cotton spinning, by water power.                                                                                                                |
| When established; and whether a joint concern?                                               | 3. In the year 1814; private property.                                                                                                             |
| Capital invested in ground and buildings, and water power, and in machinery?                 | 4. \$30,000.                                                                                                                                       |
| Average amount in materials, and in cost for the purchase of materials and payment of wages? | 5. Variable. When in full operation about \$10,000 must be apportioned in materials and manufactures on hand, with provision for payment of wages. |



| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. The first seven years sunk all the capital invested, and the last ten years have recovered about two-thirds of it; though some of the last ten were years of loss: my books will not distinguish between the two kinds of capital.                                                                                                                                                                                                        |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. Frequently by competition in the home market the profits are reduced to cost and charges; sometimes (when the business would not have been affected by home competition,) the profits are reduced to nothing, by over-importation of other descriptions of goods causing such a press for money in exports as to put down the price of yarn when the stock in market was not greater than ordinary; and vice versa for increased profits. |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Not known to the writer.                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. From 70,000 to 100,000 lbs. cotton yarn per annum; the quantity varying in the year according to the demand in some measure. It is difficult to ascertain the value, as the price has varied since the commencement from sixty-four cents in 1814, to eighteen cents per lb. in 1830.                                                                                                                                                     |
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. 350 bales of cotton, valued for 1831, at \$10,500; all the produce of the United States.                                                                                                                                                                                                                                                                                                                                                 |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. Very little, if any; cotton yarn is imported of the degree of coarseness which is manufactured at this mill.                                                                                                                                                                                                                                                                                                                             |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. 6 men, average \$6 each per week; 12 women, average \$2 each per week, 25 children, average \$1 25 per week.                                                                                                                                                                                                                                                                                                                             |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                     | 13. 11 hours per day, exclusive of meals, and about 50 weeks in the year.                                                                                                                                                                                                                                                                                                                                                                    |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 14. Not known to the writer.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. Seven.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. A small portion sold at the factory; the remainder sent 40 miles by land and water conveyance.                                                                                                                                                                                                                                                                                                                                           |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                           | 17. No foreign article of like kind is imported that I know of in latter years; domestic competition has settled that in the reduced price.                                                                                                                                                                                                                                                                                                  |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. In Pennsylvania and the southern & western States.                                                                                                                                                                                                                                                                                                                                                                                       |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                             | 19. None of this kind exported, known to the writer, until woven.                                                                                                                                                                                                                                                                                                                                                                            |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                           | 20. Much the largest part is sold on a credit, generally 6 months, after having been a store sometimes three or four months.                                                                                                                                                                                                                                                                                                                 |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased                                                                                                                                                                                                                 | 21. The cost has decreased both in the material and labor; rather more in the material                                                                                                                                                                                                                                                                                                                                                       |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                     | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>decreased; and how much in each year, in the establishment of the manufactory; whether the increase has been in the materials or the labor, and at what rate?</p>                                                                                                                                                                           | <p>rial; have not sufficient data to answer more particularly; the labor has been rather higher since 1824; material has fluctuated, having been sold some years at 10 to 15 cents, and others at 25 to 30 cents.</p>                                                                                                                                                                                                                                  |
| <p>2. The prices at which the manufactures have been sold by the manufacturer since establishment?</p>                                                                                                                                                                                                                                         | <p>22. In 1814 sixty-four cents per lb., gradually declining till 1820, it was twenty-eight cents; then advancing till 1822, it was 34 or 35 cents; then gradually declining till 1831, it was 18 cents, (except excited prices in 1825, a few months.)</p>                                                                                                                                                                                            |
| <p>3. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?</p>                                                                                                                                                                                               | <p>23. Not known.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p>4. What has been the rate of your profits, annually, for the last three years? and if you are a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore divided out annually?</p> | <p>25. Less than four per cent., after providing for necessary proportion of repairs.</p>                                                                                                                                                                                                                                                                                                                                                              |
| <p>5. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?</p>                                                                                                                                                             | <p>26. About <math>\frac{1}{3}</math> for raw material; <math>\frac{1}{3}</math> for labor in the factory; 1-20, or sometimes 1-15, might be profit; the balance is made up by contingent expenses, wastage, &amp;c., &amp;c.</p>                                                                                                                                                                                                                      |
| <p>6. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?</p>                                                                                                                                                                                         | <p>27. About \$2,000 in value of agricultural and vegetable productions; \$1,000 in domestic dry goods and groceries.</p>                                                                                                                                                                                                                                                                                                                              |
| <p>7. What quantity or amount of manufactures, such as you make, are produced in the United States; and what amount in your own State?</p>                                                                                                                                                                                                     | <p>28. No data to answer from as respects the United States; upwards of 20,000 lbs. of cotton yarn are produced in this county in one week; (no other county in this State manufactures cotton.)</p>                                                                                                                                                                                                                                                   |
| <p>8. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would that cause you to abandon your business, or would you manufacture at reduced prices?</p>                                                                            | <p>29. There can be no question but a <i>present</i> abandonment of business would be the consequence, as manufacturing at reduced prices would soon destroy the capital. All who could hold their property a few years would do an excellent business under such prices, both for raw material and manufactured goods, <i>as British monopoly would then dictate</i>, taken in connexion with the then low prices for bread, and meat, and labor.</p> |
| <p>9. If it would cause you to abandon your business, in what way would you employ your capital?</p>                                                                                                                                                                                                                                           | <p>30. Under such circumstances, I should have no capital, as purchasers for such property could not be found at any price; but, admitting a very small amount could be realized, agriculture or merchandizing would be the next business, in order to get bread, though both branches are well filled.</p>                                                                                                                                            |

## DOCUMENT 15.—No. 5—Continued.

| QUESTIONS.                                                                                                                                                            | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>31. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent.?</p> | <p>31. Certain loss would result, and total ruin would follow such an import duty; and twenty-five cents per day for my manual labor would be better than that; the effect (of such a change in the duties) on agriculture or other business might be to deter a man from engaging in them without the necessary experience, which he could not have if his time had been spent in manufacturing.</p> |

Newcastle, March 10th, 1832.

JACOB PUSEY, *Cotton Spinner*

## DOCUMENT 15.—No. 6.

*John & Alexander Peterson's Tannery, Smyrna, Kent County, Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. State and county in which the manufactory is situated?</p> <p>2. Kind or description of the manufactory; and whether water, steam, or other power?</p> <p>3. When established; and whether a joint stock concern?</p> <p>4. Capital invested in ground and buildings, and water power, and machinery?</p> <p>5. Average amount in materials, and in cash for the purchase of materials and payment of wages?</p> <p>6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed?</p> <p>7. Cause of the increase, (or decrease, as the case may be,) of profit?</p> | <p>1. Smyrna, Kent county, State of Delaware.</p> <p>2. Tannery; horse power used for grinding bark, for which water power is intended to be substituted this present year.</p> <p>3. Established by Israel Peterson in the year 1782, and now owned by his descendants John &amp; Alexander Peterson.</p> <p>4. The cost of the buildings, <del>etc.</del> mills, pumps, &amp;c. about \$7,500.</p> <p>5. The whole amount of capital invested in the business for purchasing materials, paying wages, and giving the usual credits on sales, for the last three years, has been on the average about \$25,000.</p> <p>6. For several years preceding the year 1819, the profits were large, say from 25 to 33½ per cent., but since 1820 very few establishments were able to maintain themselves, and at least one-half of the tanneries in the county are now unoccupied. Since 1833 the business has been gradually reviving, and now, if judiciously managed, will pay 10 per cent. on the capital invested.</p> <p>7. The large profits during the ten years preceding the year 1819 induced the forming of large establishments in the hemlock forest of New York and Western Pennsylvania, and the general extension of business by them already engaged in it, until the supply ran greatly above the demand, and a consequent fall of prices, which proved ruinous to all, but those of the more favored situations; for the last few years the supply has become less, and the demand increased with the increased consumptions, and a gradual rise in prices taken place.</p> |

| QUESTIONS.                                                                                                                                                                                                                                                  | ANSWERS.                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                              | 8. We can give no answer to this question.                                                                                                                                                             |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                       | 9. Not having kept a register, we cannot give a correct answer to this question.                                                                                                                       |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                             | 10. There is expended in the purchase of Spanish or South American hides, annually, from \$ 8,000 to \$ 10,000; hides and skins from the surrounding country about \$ 3,000; bark 300 cords, \$ 3,000. |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                             | 11. We believe there is none of the same kind of articles which is manufactured by us imported from abroad.                                                                                            |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                            | 12. Nine men employed by us; the average wages of whom are about 15 dollars per month.                                                                                                                 |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                            | 13. About ten hours throughout the year, on the average.                                                                                                                                               |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                            | 14. The wages for agricultural laborers in this district is from ten to twelve dollars per month when they board themselves; from five to seven dollars and boarded.                                   |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                             | 15. Four horses employed in grinding bark and milling hides.                                                                                                                                           |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                   | 16. Part at the manufactory, and part in the cities of Philadelphia and New York: distance Philadelphia 60 miles, New York 150 miles.                                                                  |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                  | 17. There is no foreign competition.                                                                                                                                                                   |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                    | 18. Principally in the United States; some in South America and West Indies.                                                                                                                           |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                    | 19. Some to South America and West Indies in the state it leaves our manufactory, and considerable when manufactured into shoes and boots.                                                             |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                  | 20. Principally sold on a credit of from four to six months.                                                                                                                                           |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. The cost to the manufacturer has increased by the rise in the prices of foreign hides and of bark.                                                                                                 |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                        | 22. As low as 20 cents and high as 30 cents per pound for sole leather of the same quality, and upper leather at \$ 4 and at \$ 6 50 per hide, calf-skins at \$ 16 and at \$ 30 per dozen.             |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                  | 23. We cannot say, but believe that in the heavy articles we can compete without any duty, so long as foreign hides remain duty free.                                                                  |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                            | 24. None that we know of.                                                                                                                                                                              |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Perhaps ten per cent.                                                                                                                                                 |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. The raw material cost as 75 to 12<br>wages as - - - 15 to 18<br>profits on capital as - - 10 to 12                                                                    |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. Consumed by the family, horses, &c. in corn, flour, pork, beef, butter, &c., at \$ 800; in domestic fabrics, woollens, cottons, &c. \$ 200; making annually \$ 1,000. |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                       | 28. Not knowing cannot say.                                                                                                                                               |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you manufacture at reduced prices?                                                                                | 29. We think a reduction of duty would have no effect on the prices of the riches manufactured by us.                                                                     |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. The 29th answers this.                                                                                                                                                |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                              | 31. The 29th answers this.                                                                                                                                                |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                                                                                                | 32. Not in our line.                                                                                                                                                      |
| 33. Amount of capital, and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                                                                                               | 33. Ditto.                                                                                                                                                                |

We leave the last eleven questions unanswered, feeling unable to give any information.  
SMYRNA, March 9, 1832.

JOHN & ALEX. PETERSON.

DOCUMENT 15.—No. 7.

*William D. Waples's Blast Furnace, Essex County, State of Delaware.*

| QUESTIONS.                                                | ANSWERS.                                |
|-----------------------------------------------------------|-----------------------------------------|
| 1. State and county in which the manufactory is situated? | 1. State of Delaware, county of Sussex. |

## DOCUMENT 15.—No. 7.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                         | ANSWERS.                                                                                                                                                                                                                                                                                                                                             |                                                 |         |                     |      |         |       |                            |          |              |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------|---------------------|------|---------|-------|----------------------------|----------|--------------|-------|
| 1. Kind or description of the manufactory; whether water, steam, or other power?                                                                                                                                                                                                                   | 2. Blast furnace for the purpose of converting bog ore into castings and pigs,—it goes by water power                                                                                                                                                                                                                                                |                                                 |         |                     |      |         |       |                            |          |              |       |
| 2. When established, and whether a joint concern?                                                                                                                                                                                                                                                  | 3. In the year 1817: it is an individual concern.                                                                                                                                                                                                                                                                                                    |                                                 |         |                     |      |         |       |                            |          |              |       |
| 3. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                    | 4. Fifteen thousand dollars.                                                                                                                                                                                                                                                                                                                         |                                                 |         |                     |      |         |       |                            |          |              |       |
| 4. Average amount in materials, and in the purchase of materials and payment of wages?                                                                                                                                                                                                             | 5. About twenty-four thousand dollars for a blast of about 9 months.                                                                                                                                                                                                                                                                                 |                                                 |         |                     |      |         |       |                            |          |              |       |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest on it; and the rate of profit upon that portion which is not borrowed? | 6. The profits of the establishment are such as are derived from the payment of a part of the wages: cost of the raw materials and transportation of them to the furnace in merchandise instead of cash,—were the whole expenditures to be paid in cash, the profit would be nothing,—probably it might be set down as a losing concern.             |                                                 |         |                     |      |         |       |                            |          |              |       |
| 7. Cause of the increase (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                             | 7. The fluctuations of the market, and want of steady sales at some fixed price: it is not so material what the price is, as that it should be fixed, and the demand steady; wages and cost of raw materials cannot be made to fluctuate with the prices of the articles.                                                                            |                                                 |         |                     |      |         |       |                            |          |              |       |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                     | 8. The profit derived from the employment of capital in this county, arise chiefly from the causes enumerated in the 6th query, and are small.                                                                                                                                                                                                       |                                                 |         |                     |      |         |       |                            |          |              |       |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                              | 9. 300 tons pig, and 300 tons of castings, chiefly stove castings, although pipes for the conveyance of water and machinery have been made in some quantities for a few years past; pigs are now worth \$30 per ton, castings from 50 to 60 dollars per ton: ten years since castings were worth from 75 to 80 dollars, and pigs 45 dollars per ton. |                                                 |         |                     |      |         |       |                            |          |              |       |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                    | <table> <tr> <td>10. 180,000 bus. charcoal, at \$50 per thousand</td><td>\$9,000</td></tr> <tr> <td>2,000 tons bog ore,</td><td>3 75</td></tr> <tr> <td>per ton</td><td>7,500</td></tr> <tr> <td>7,000 bush. oyster shells,</td><td>8 c. 560</td></tr> <tr> <td>Hands' wages</td><td>7,000</td></tr> </table>                                        | 10. 180,000 bus. charcoal, at \$50 per thousand | \$9,000 | 2,000 tons bog ore, | 3 75 | per ton | 7,500 | 7,000 bush. oyster shells, | 8 c. 560 | Hands' wages | 7,000 |
| 10. 180,000 bus. charcoal, at \$50 per thousand                                                                                                                                                                                                                                                    | \$9,000                                                                                                                                                                                                                                                                                                                                              |                                                 |         |                     |      |         |       |                            |          |              |       |
| 2,000 tons bog ore,                                                                                                                                                                                                                                                                                | 3 75                                                                                                                                                                                                                                                                                                                                                 |                                                 |         |                     |      |         |       |                            |          |              |       |
| per ton                                                                                                                                                                                                                                                                                            | 7,500                                                                                                                                                                                                                                                                                                                                                |                                                 |         |                     |      |         |       |                            |          |              |       |
| 7,000 bush. oyster shells,                                                                                                                                                                                                                                                                         | 8 c. 560                                                                                                                                                                                                                                                                                                                                             |                                                 |         |                     |      |         |       |                            |          |              |       |
| Hands' wages                                                                                                                                                                                                                                                                                       | 7,000                                                                                                                                                                                                                                                                                                                                                |                                                 |         |                     |      |         |       |                            |          |              |       |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                    | <p>All domestic products \$34,060</p> <p>11. I believe that similar articles are imported from England at about the same prices as are enumerated in the 9th query.</p>                                                                                                                                                                              |                                                 |         |                     |      |         |       |                            |          |              |       |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                  | 12. 35 furnacemen and 10 boys; wages of men, 12 to 30, average 18 dollars, boys 6 dollars per month. 45 men coaling, ore raising, wood-chopping and hauling, whose wages are included in the cost of coal and ore in the 10th query.                                                                                                                 |                                                 |         |                     |      |         |       |                            |          |              |       |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                   | 13. 24 hours per day by a double set of hands for 9 months in the year.                                                                                                                                                                                                                                                                              |                                                 |         |                     |      |         |       |                            |          |              |       |
| 14. Rate of wages of similar classes otherwise employed in the same State and county; and in other States; and in foreign countries?                                                                                                                                                               | 14. There is no other furnace in the county: the rate of wages in foreign countries is not known.                                                                                                                                                                                                                                                    |                                                 |         |                     |      |         |       |                            |          |              |       |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. Thirty horses, or thirty-five mules.                                                                                                                                                                                                                                                                                                                                                   |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. Boston, New York, Philadelphia, Baltimore, Washington City, and Norfolk.                                                                                                                                                                                                                                                                                                               |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                                                                  | 17. They certainly do; but to what extent I am not informed.                                                                                                                                                                                                                                                                                                                               |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. Through every part of our widely-tended country.                                                                                                                                                                                                                                                                                                                                       |
| 19. Whether any of the manufactures are exported to foreign countries? And if so, where?                                                                                                                                                                                                                                                   | 19. I believe none are exported.                                                                                                                                                                                                                                                                                                                                                           |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Generally on a year's credit; sometimes bartered and sometimes cash, at 60 or 90 days.                                                                                                                                                                                                                                                                                                 |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                 | 21. The cost has decreased, though not materially; the decrease has been a labor.                                                                                                                                                                                                                                                                                                          |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. Answered in the 9th query.                                                                                                                                                                                                                                                                                                                                                             |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. A sufficient duty to secure the home market; competition will reduce the price to a bare living profit. We have sufficient of the raw material to supply the work, and capital, skill, and enterprise enough to manufacture it; furthermore, the regions in which the raw material abounds are sterile and unfit for cultivation, consequently, totally useless for any other purpose. |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. I cannot say; but I have been informed that wrought iron is fraudulently entered under names calling for a less duty, thereby evading the duty.                                                                                                                                                                                                                                        |
| 25. What has been the rate of your profits, annually, for the last three years? And if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Answered in the 6th query.                                                                                                                                                                                                                                                                                                                                                             |
| 26. What portion of the cost of your manufactures consists of the price of the raw material; what portion of the wages of labor; and what portion of the profits of capital?                                                                                                                                                               | 26. The cost is chiefly wages, say 9-10ths the ore in the bed and coal and wood used will not amount to more than 1-10th. The profits as before stated arise from a small part of the cost in merchandise on which a reasonable profit is made instead of cost is inconsiderable.                                                                                                          |
| 27. What amount of the agricultural products of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                              | 27. Very considerable. The whole consumption is either agricultural or domestic; the 9-10ths paid for wages is again paid in subsistence chiefly.                                                                                                                                                                                                                                          |

DOCUMENT 15.—No. 7—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. What quantity or amount of manufactures, such as you make, are produced in the United States; and what amount in your own State?                                                                                                                                                                                                                     | 28. There is no other manufactory of the kind in this State: I am unable to say what amount is produced in the United States.                                                                                                                                                                                                                                                                                           |
| 2. If the duty upon the foreign manufacture of the kind of goods which you make is reduced to 12½ per cent. with a corresponding reduction on all the imports, would you use you to abandon your business, or would you manufacture at reduced prices?<br>3. If it would cause you to abandon your business, in what way would you employ your capital? | 29. I must abandon the business; the corresponding reduction on all imports would avail me nothing; and foreign capital would undoubtedly be wielded to sacrifice the American manufacturer, to give them the monopoly.<br>30. In agriculture, which is already overburdened: by abandoning my business I should transfer 80 men, chiefly heads of families, from the consuming to the producing part of the community. |
| 4. Is there any pursuit in which you could engage, from which you could derive greater income even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                                             | 31. Perhaps not; were the import duties reduced to 12½ per cent., while foreign nations retained duties from 50 to 1500 per cent. on all our productions, I think it would be perfectly indifferent to me whether I starved doing nothing, or starved while endeavoring to get a living at any other pursuit.                                                                                                           |
| 5. Are not the manufactures of salt and iron remote from the points of importation, of foreign competition within a certain circle round them, and what is the extent of that circle?                                                                                                                                                                   | 32. The manufacturers of salt and bar iron on a small scale are undoubtedly remote from foreign competition in their immediate neighborhoods, but the manufacturer of cast iron from the raw material must necessarily do so extensive a business with cities remote from his neighborhood, as to deprive him of any such advantage.                                                                                    |
| 6. Amount of capital: and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                                                                                                             | 33. Not less than forty thousand dollars real capital, as the expenses are chiefly paid previous to receiving the proceeds of a year's work.                                                                                                                                                                                                                                                                            |
| 7. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; how gradual the reduction should be?                                                                                                                                                                                    | 34. If a reduction of duties are made, the capital must of necessity be sacrificed or withdrawn.                                                                                                                                                                                                                                                                                                                        |
| 8. If minimums should be abolished, and duty assessed upon the real value of the imported article in the American port, what would ad valorem duty would be equivalent to the present with the minimum?                                                                                                                                                 | 35. I cannot say.                                                                                                                                                                                                                                                                                                                                                                                                       |
| 9. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                                                                                                                                                                                      | 36. I cannot answer.                                                                                                                                                                                                                                                                                                                                                                                                    |
| 10. Proportion which the production by American manufacturers bears to the consumption?                                                                                                                                                                                                                                                                 | 37. I have not the means at hand of answering this query: it has received an able answer from the Convention at New York.                                                                                                                                                                                                                                                                                               |
| 11. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?                                                                                                                                                                                                                        | 38. I am not informed.                                                                                                                                                                                                                                                                                                                                                                                                  |

Respectfully, yours, &amp;c.

WM. D. WAPLES.



## DOCUMENT 15.—No. 8.

*Alexander V. Murphy's Woollen Manufactory, Kent County, Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                                                         | ANSWERS.                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                          | 1. Delaware State, Kent county.                                                                                                                                                                                                                                                                                 |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                               | 2. Wool and black-oak bark, by water power.                                                                                                                                                                                                                                                                     |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                            | 3. The wool factory established in 1824 by an individual, enlarged by a firm in 1828, and in 1828 an individual continued the wool, and in addition established a manufactory of the quercitron bark.                                                                                                           |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                    | 4. Ground and buildings \$5,000; water power and machinery \$1,600.                                                                                                                                                                                                                                             |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                    | 5. Three hundred dollars.                                                                                                                                                                                                                                                                                       |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit on that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. Annual rate of profit upon the capital invested in the woollen concern from 1825 until 1824, 12 per cent.; from 1824 until 1828, eight per cent.; from 1828 until 1831, six per cent. On the capital invested in the bark in 1828 and 1829, 50 per cent.; and in 1830 and 1831 not any. No capital borrowed. |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                            | 7. Decrease caused by a supply of the same kind of goods at lower prices.                                                                                                                                                                                                                                       |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                     | 8. Only a small capital employed at 60 per cent.                                                                                                                                                                                                                                                                |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                              | 9. 2,090 yards coarse cloths, kerseys, and satinets; average value say 60 cents per yard.                                                                                                                                                                                                                       |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                    | 10. 2,000 pounds coarse wool, raised principally in the neighborhood.                                                                                                                                                                                                                                           |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                  | 12. One man at \$10 per month; four apprentice boys from 12 to 21 years old; three children.                                                                                                                                                                                                                    |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                   | 13. Ten hours per day from the first of May until the last of December.                                                                                                                                                                                                                                         |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                   | 14. Wages of men hands employed in the same county and State \$7 per month.                                                                                                                                                                                                                                     |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                    | 15. Three horses.                                                                                                                                                                                                                                                                                               |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                          | 16. Market principally at or near home.                                                                                                                                                                                                                                                                         |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                         | 17. Foreign articles not so much competition as the domestic manufacture.                                                                                                                                                                                                                                       |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                           | 18. In the neighborhood.                                                                                                                                                                                                                                                                                        |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                                                          | 19. The quercitron bark nearly all exported to Europe.                                                                                                                                                                                                                                                          |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                         | 20. Bartered for wool and merchandise, and fixtures consumable in the establishment.                                                                                                                                                                                                                            |

## DOCUMENT 15.—No. 8—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the material or the labor, and at what rate?                                                                                | 21. But little variation in the labor or material.                                                                                                                    |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                     | 22. From the commencement of the establishment kersey was generally sold for \$ 1 25 per yard, until after the year 1824; since that time to the present at 75 cents. |
| 25. What has been the rate of your profits annually for the last three years? And if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Six per cent. on the wool capital, and averaging ten per cent. on the bark capital.                                                                               |
| 27. What amount of the agricultural products of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                            | 27. Agricultural productions to the amount of \$ 300.                                                                                                                 |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                            | 31. Yes.                                                                                                                                                              |

## DOCUMENT 15.—No. 9.

*Quercitron Bark Manufactory, Kent County, Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Kent county, State of Delaware.                                                                                                                                                              |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Quercitron bark, by water power.                                                                                                                                                             |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. At different dates, since 1815.                                                                                                                                                              |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                                                                                                                                                                                          | 4. Eleven thousand dollars.                                                                                                                                                                     |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. The cost for purchase of the rough bark, and payment of wages for manufacturing, and cost of packages, \$30,650.                                                                             |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. From 1815 to 1829 the annual profit would have amounted to 33½ per cent. on all the capital employed: since 1829, a loss of 10 per cent. may be considered as sustained by the manufacturer. |

## DOCUMENT 15.—No. 9—Continued.

| QUESTIONS.                                                                                                                                                                   | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                      | 7. The cause of decrease in profits may be alleged to a superfluous quantity being manufactured, and to the late discovery of a mineral substitute.                                                                                                                                                                                                                                                                          |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                        | 9. Say 1,500 tons; average value per ton, \$40; amounting to \$60,000 annually since 1829.                                                                                                                                                                                                                                                                                                                                   |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                              | 11. None imported.                                                                                                                                                                                                                                                                                                                                                                                                           |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                            | 12. Say fifty able-bodied men; average wages, seventy-five cents per day.                                                                                                                                                                                                                                                                                                                                                    |
| 13. How many hours a day employed, and what portion of the year?                                                                                                             | 13. Twelve hours each day, and nearly the whole year.                                                                                                                                                                                                                                                                                                                                                                        |
| 14. Rate of wages of similar classes otherwise employed in the same State and county?                                                                                        | 14. At agricultural avocations, thirty cents and a half cents per day.                                                                                                                                                                                                                                                                                                                                                       |
| 15. Number of horses or other animals employed?                                                                                                                              | 15. Fourteen to twenty                                                                                                                                                                                                                                                                                                                                                                                                       |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                    | 16. All shipped to New York and Philadelphia.                                                                                                                                                                                                                                                                                                                                                                                |
| 18. Where are the manufactures consumed?                                                                                                                                     | 18. In Great Britain, France, Prussia, Germany, and in the New England manufacturing States.                                                                                                                                                                                                                                                                                                                                 |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                     | 19. To Great Britain, France, Prussia, Germany.                                                                                                                                                                                                                                                                                                                                                                              |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital? | 26. Raw material eighteen thousand dollars; wages paid for labor and other expenses, twelve thousand six hundred and fifty dollars.                                                                                                                                                                                                                                                                                          |
| 27. What amount of the agricultural products of the country is consumed in your establishment, and what amount of other domestic productions?                                | 27. Of agricultural products consumed, six thousand six hundred and fifty dollars; domestic productions, three thousand dollars.                                                                                                                                                                                                                                                                                             |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                         | 28. In the State of Delaware, say fifty thousand dollars.                                                                                                                                                                                                                                                                                                                                                                    |
| 38. Extent of individual and household manufacture in the State of Delaware, and how much it has increased since the tariff of 1824?                                         | 38. The low price at which cotton yarn is now sold, occasioned by the improvement in its manufacture, has occasioned a considerable increase in household manufacturing, to the fully one-half of our agricultural cotton is clothed with the products of their own industry, especially as regards their winter apparel; and household manufacturing has increased at least twenty-five per cent. since the tariff of 1824. |

JOS. G. OLIVER

KENT COUNTY, Delaware.

## DOCUMENT 15.—No. 10.

*John M. Darby's Tannery and Shoe Factory, Kent County, Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                                                            | 1. Kent county, Delaware.                                                                          |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                                                 | 2. Tannery and shoe factory; tannery by horse power.                                               |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                                                              | 3. In the year 1824; an individual concern.                                                        |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                                                      | 4. Worth and valued at three thousand dollars.                                                     |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                                                                                                     | 5. Average amount of materials \$7000, average amount of wages \$2500.                             |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                                                              | 7. The demand of the articles.                                                                     |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                                                | 9. From 10 to 12,000 dollars annually; first and second quality.                                   |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                                                      | 10. Foreign hides, amount \$3000; domestic \$1500; bark, leather, and other raw materials, \$5000. |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                                                    | 12. Men and boys 20; from 15 to \$20.                                                              |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                                                     | 13. Ten hours; twelve months.                                                                      |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                                                     | 14. From 8 to \$12 in this county.                                                                 |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                      | 15. Three horses, two oxen.                                                                        |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                                                                                            | 16. Half at Philadelphia, half at home.                                                            |
| 17. Whether foreign articles of the like kinds enter into competition with them at each place of sale, and to what extent?                                                                                                                                                                                                           | 17. None.                                                                                          |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                             | 18. In the United States.                                                                          |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, what credit? if bartered, for what?                                                                                                                                                                                                              | 20. From four to six months' credit.                                                               |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                          | 21. Annual increase of two per cent. occasioned by demand.                                         |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                 | 22. Sole leather from 22 to 27 cents; upper leather from \$3 50 to \$4 25 per side.                |
| 25. What has been the rate of your profits annually for the last three years? and if it be joint stock company, what dividends have been received, and what portion of the income of the company has been converted in fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. From fifteen to twenty per cent.                                                               |

## DOCUMENT 15.—No. 10—Continued.

| QUESTIONS.                                                                                                                                                                   | ANSWERS.                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital? | 26. Raw material half; labor one-fourth |
| 27. What amount of the agricultural products of the country is consumed in your establishment, and what amount of other domestic productions?                                | 27. Two thousand dollars.               |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                               | 30. I am not prepared to answer.        |

JOHN M. DAREY.

MILFORD, Kent County, Delaware, March 7, 1832.

## DOCUMENT 15.—No. 11.

Thomas Clark's Tannery, Frederica, Kent County, Delaware.

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Frederica, Kent county, and State of Delaware.                                                                                                                                   |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Tanning of Spanish ox and horse hides, together with all kinds of country hides and skins, with horse power.                                                                     |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. In 1792 stocked in various ways, in 1815 my brother and self commenced with a joint stock, and continued until 1831, then stocked by myself.                                     |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. In ground and building \$5,000; no water power: stone mills and patent iron bat mills \$200.                                                                                     |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. Materials \$8,000; wages not more than \$200; the hands being all my own, with no currier on wages.                                                                              |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. The stock since March 12, 1831, has given 10 per cent.                                                                                                                           |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. The decrease heretofore was owing to the overstock and the high duty abroad: as there is at this time some rise, owing to the old stock being worked off, and less manufactured. |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Don't know.                                                                                                                                                                      |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. Twelve thousand dollars.                                                                                                                                                         |

## DOCUMENT 15.—No. 11—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?</p> <p>2. Cost in the United States of similar articles of manufacture imported from abroad, from what countries?</p> <p>3. Number of men, women and children employed, and average wages of each class?</p> <p>3. How many hours a day employed, and at what portion of the year?</p> <p>4. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?</p> <p>5. Number of horses or other animals employed?</p> <p>6. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?</p> <p>17. Whether foreign articles of the like kind enter into competition with them at the place of sale, and to what extent?</p> <p>18. Where are the manufactures consumed?</p> <p>19. Whether any of the manufactures are exported to foreign countries? and if so, where?</p> <p>20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, what credit? if bartered, for what?</p> <p>21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year since the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?</p> <p>22. The prices at which the manufactures have been sold by the manufacturer since the establishment?</p> <p>23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?</p> <p>24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?</p> <p>25. What has been the rate of your profits, annually, for the last three years? and if it is a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually?</p> <p>27. What amount of the agricultural products of the country is consumed in your establishment, and what amount of other domestic productions?</p> <p>40. Average rate of wages?</p> | <p>10. 250 cords of bark, from \$5 to \$12<sup>50</sup> per cord; \$3,000 in domestic hides; \$3,500 or \$3,600 in South America or Spanish hides.</p> <p>11. Don't know.</p> <p>12. Five men and two boys.</p> <p>13. All the year.</p> <p>14. In our State eighty dollars.</p> <p>15. Three horses.</p> <p>16. About one-third is sold at the yard, and the balance sent to Philadelphia, one hundred miles.</p> <p>17. No foreign.</p> <p>18. Principally in the middle States.</p> <p>19. Some are exported to South America.</p> <p>20. Some are bartered for hides, some sold for cash, and the larger part are sold at four and six months.</p> <p>21. No material alteration has taken place only in bark.</p> <p>22. Sole leather for 23 to 26 cents per lb. and country hides four to six dollars per hide.</p> <p>23. Don't know.</p> <p>24. Don't know.</p> <p>25. My profit has been as near 10 per cent. as I can compute it.</p> <p>27. Five thousand five hundred dollars.</p> <p>40. From eight to ten dollars.</p> |

THOMAS CLARK.

## DOCUMENT 15.—No. 12.

*Catlin & Green's Sole and Upper Leather Factory, Willow Grove, Kent County, Delaw.*

| QUESTIONS.                                                                                                                                                                                                                                                                                                                               | ANSWERS.                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                                                                | 1. Delaware, Kent county.                                       |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                                                     | 2. Sole and upper leather; horse power.                         |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                                                                  | 3. 1829; joint concern.                                         |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                                                          | 4. Eight hundred dollars.                                       |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                                                          | 5. Two thousand dollars.                                        |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed?                                     | 6. Five hundred and fifty dollars.                              |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                                                                  | 7. Increased about 10 per cent.                                 |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                                                        | 12. Two men, at \$1 25 per annum.                               |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                                                         | 13. From sun to sun, all the year.                              |
| 14. Rate of wages of similar classes otherwise employed in the same State, and county, in other States, and in foreign countries?                                                                                                                                                                                                        | 14. About the same as at this business.                         |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                          | 15. One horse.                                                  |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                                                                                                | 16. Principally sent to Philadelphia, about 100 miles.          |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                 | 18. Cannot say; but presume in the United States.               |
| 20. Whether the manufacture is sold by the manufacturer for cash? and, if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                              | 20. Generally at a credit of four weeks, or bartered for hides. |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the material or the labor, and at what rate?                                                                                | 21. Cannot say, certainly.                                      |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                     | 22. Sole leather about 26 cents; upper about four dollars.      |
| 25. What has been the rate of your profits annually for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. We have made no dividend.                                   |
| 27. What amount of the agricultural products of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                            | 27. About two hundred dollars.                                  |

## DOCUMENT 15.—No. 12—Continued.

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1. If the duty upon the foreign manufacture of the kind of goods which you make is reduced to 12½ per cent, with a corresponding reduction on all the imports, would you use you to abandon your business, or would you manufacture at reduced prices? | 29. I would abandon the business, as I cannot afford to manufacture at a reduced price. |
| 2. If it would cause you to abandon your business, in what way would you employ capital?                                                                                                                                                               | 30. The best way I could, but do not know what.                                         |
| 3. Are not the manufactures of salt and remote from the points of importation, of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                      | 32. Does not immediately concern my business.                                           |
| 4. Amount of capital; and what proportion the borrowed capital bears to that which is not borrowed?                                                                                                                                                    | 33. About two thousand dollars; none borrowed.                                          |
| 5. Average rate of wages?                                                                                                                                                                                                                              | 40. About \$5 50, board, washing, and mending, per month.                               |

## CATLIN &amp; GREEN.

*Note.*—There are two small tanning concerns in Kent county, of about the same extent as foregoing; one at Georgetown, the other at Canterbury: but as they were 8 or 10 miles from my way, and had been sufficiently described to me, I did not deem it necessary to visit them.

J. A. SPARKS.

## DOCUMENT 15.—No. 13.

*Benson & Catts, Coachmakers, Kent County, Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Kent county, Delaware.                                                                                        |
| 2. Kind or description of the manufactory; whether water, steam, or other power?                                                                                                                                                                                                                     | 2. Manual labor.                                                                                                 |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Joint stock at present, and has been since 1826; established by one of the firm in 1915.                      |
| 4. Capital invested in ground and buildings, water power and machinery?                                                                                                                                                                                                                              | 4. Ground and buildings, viz. coach shop, plater's and blacksmith shops, and other out buildings, value \$2,500. |
| 5. Average amount in materials, and in labor for the purchase of materials and payment of wages?                                                                                                                                                                                                     | 5. From fourteen to fifteen thousand dollars.                                                                    |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of interest upon that portion of the capital which is borrowed, after providing for the interest on it, and the rate of profit upon that portion which is not borrowed? | 6. About 15 per cent.: capital is all blended, as four-fifths of the manufactured articles is sold on a credit.  |



| QUESTIONS.                                                                                                                                                                                                                                                | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7. Cause of the increase (or decrease, as the case may be,) of profit?                                                                                                                                                                                    | 7. The cause of the increase is owing to the experience in the business, and the improvement in the labor.                                                                                                                                                                                                                                                                                            |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                     | 9. At the commencement, in 1825, the articles were at least 30 per cent. higher than at this time; then the amount annually, for the first one or two years, was about \$4,000 but a gradual increase has made the sum now, though the articles are sold 30 percent lower, to \$24,000 and upwards per annum. Articles manufactured are coaches, sleighs, dearborns and gigs, sulkeys, &c.            |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                           | 10. Of iron, about twelve tons, about one-sixth is English or foreign, for the only, - \$1.20<br>One hundred to 120 yards blue cloth, principally English, - 50<br>Muslins, linings, \$150; hardware, viz screws, tacks, nails, &c. \$200; morocco, \$250; leather, \$2,000; all domestic, - 2.50<br>Paints, oil, &c., lumber, plated ware, &c., &c., - 7.50<br>As near as can be ascertained, \$5.20 |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                         | 12. Twelve men at an average of \$280, making - \$3,360<br>Twenty boys and laborers, at \$15, - 300<br>\$3,660                                                                                                                                                                                                                                                                                        |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                          | 13. From first March to first October, 11 hours; first October to first March, 12 hours.                                                                                                                                                                                                                                                                                                              |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                           | 15. Four horses.                                                                                                                                                                                                                                                                                                                                                                                      |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                 | 16. A part at the manufactory; the balance sold in Maryland, Virginia, Georgia, North Carolina, and territory of Florida.                                                                                                                                                                                                                                                                             |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale; and to what extent?                                                                                                                                 | 17. We never have come in competition with foreign articles.                                                                                                                                                                                                                                                                                                                                          |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                  | 18. United States.                                                                                                                                                                                                                                                                                                                                                                                    |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                  | 19. None.                                                                                                                                                                                                                                                                                                                                                                                             |
| 20. Whether the manufacture is sold by the manufacturer for cash? if on credit, at what credit? if bartered, for what?                                                                                                                                    | 20. On a credit of from six months to two years, in part for cash, considerable in law for horses, cattle, and agricultural produce.                                                                                                                                                                                                                                                                  |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased, and how much in each year from the establishment of the manufactory; and whether the increase has been in the material or the labor, and at what rate? | 21. There has been but little variation in the cost of the article; if any change, it has decreased; and that in the labor being lower, by an increase of workmen in the improvement in the trade.                                                                                                                                                                                                    |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                     | ANSWERS.                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>25. What has been the rate of your profits, annually, for the last three years? and if it be joint stock company, what dividends have been received, and what portion of the income of the company has been converted into paid capital, or retained as a fund for contingent or other objects, and therefore not divided out annually?</p> | <p>25. About 15 per cent.; there has not been any dividends; we simply draw out of the firm for the support of our families.</p>                                                                         |
| <p>26. What portion of the cost of your manufactures consists of the price of the raw material; what portion of the wages of labor, and what portion of the profits of capital?</p>                                                                                                                                                            | <p>26. The cost of the materials is about 60 to 65 per cent., and the wages for labor about 35 to 40 per cent.</p>                                                                                       |
| <p>27. What amount of the agricultural products of the country is consumed in your establishment, and what amount of other domestic productions?</p>                                                                                                                                                                                           | <p>27. About 900 bushels Indian corn, 150 bushels oats, 50 barrels flour, 200 bushels potatoes, 8,000 weight pork, 5,000 weight beef, veal, and mutton.</p>                                              |
| <p>28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?</p>                                                                                                                                                                                                    | <p>28. Supposed in Delaware about \$70,000.</p>                                                                                                                                                          |
| <p>29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would that cause you to abandon your business; or could you manufacture at reduced prices?</p>                                                                           | <p>29. In consequence of the cheapness of labor in England, we should have to abandon our business; as a very small part of our materials are imported, and we could not compete in labor with them.</p> |
| <p>30. If it would cause you to abandon your business, in what way would you employ your capital?</p>                                                                                                                                                                                                                                          | <p>30. A very difficult question to answer. If all the manufacturing capital was turned into a different channel, we know not what we could get at to make a subsistence.</p>                            |
| <p>31. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent.?</p>                                                                                                                                                                          | <p>31. We know of none.</p>                                                                                                                                                                              |

BENSON & CATTS,  
Coachmakers.

SMYRNA, DELAWARE, March 14, 1832.

**DOCUMENT 15.—No. 14.**  
*Manufactories of Leather in Kent County, Delaware.*

| Manufacturers' Names. | Capital. | Amount invested in ground, building, water power, & machinery. | Amount in materials, &c. | Value of articles annually manufactured. | Number of workmen employed. | Wages.   | Number of horses. | Profits.   | Value agricultural products and domestic productions. |
|-----------------------|----------|----------------------------------------------------------------|--------------------------|------------------------------------------|-----------------------------|----------|-------------------|------------|-------------------------------------------------------|
| John & A. Peterson    | -        | \$ 7,500                                                       | \$ 25,000                | -                                        | 9                           | \$ 1,680 | 4                 | 10 per ct. | \$ 1,000                                              |
| Cadlin and Green      | \$ 2,000 | 800                                                            | 2,000                    | -                                        | 2                           | 250      | 1                 | \$ 550     | 200                                                   |
| Thomas Clark          | -        | 3,200                                                          | 8,000                    | \$ 12,000                                | 5 & 2 boys                  | 800      | 3                 | 10 per ct. | 5,500                                                 |
| John M. Darby         | 7,000    | 3,000                                                          | 9,500                    | 85,000                                   | 20                          | 2,500    | 3 & 2 oxen        | -          | 2,000                                                 |
| Aggregate             | 9,000    | 14,500                                                         | 44,500                   | 97,000                                   | 34 & 2 boys                 | 5,230    | 11 & 2 oxen       | 550        | 8,700                                                 |

*Manufacture of Quercitron Bark.*

|                  |   |           |          |                      |    |           |    |   |          |
|------------------|---|-----------|----------|----------------------|----|-----------|----|---|----------|
| Joseph G. Oliver | - | \$ 11,000 | \$ 18,00 | 15,000 tons \$60,000 | 50 | \$ 12,650 | 17 | - | \$ 9,650 |
|------------------|---|-----------|----------|----------------------|----|-----------|----|---|----------|

*Manufacture of Quercitron Bark, and for crushing Lint Seed.—goes by water.*

|                 |   |          |          |          |    |          |  |  |  |
|-----------------|---|----------|----------|----------|----|----------|--|--|--|
| Peter F. Causey | - | \$ 3,000 | \$ 5,400 | \$ 7,600 | 10 | \$ 1,800 |  |  |  |
|-----------------|---|----------|----------|----------|----|----------|--|--|--|

*Manufacture of Wool and Black Oak Bark.—goes by water.*

|                     |   |          |     |                                                                  |                             |     |   |             |  |
|---------------------|---|----------|-----|------------------------------------------------------------------|-----------------------------|-----|---|-------------|--|
| Alexander V. Murphy | - | \$ 6,800 | 500 | 5,000 yds. crapes<br>clothes, kerseys, &<br>\$ 1,800 at 100 yds. | 4 apprentices<br>& children | 120 | 3 | 6 per cent. |  |
|---------------------|---|----------|-----|------------------------------------------------------------------|-----------------------------|-----|---|-------------|--|

## DOCUMENT 15.—No. 15.

*Leather Manufactory, Sussex County, State of Delaware.*

## QUESTIONS.

1. State and county in which the manufactory is situated?
2. Kind or description of the manufactory; and whether water, steam, or other power?
3. When established; and whether a joint stock concern?
4. Capital invested in ground and buildings, and water power and machinery?
5. Average amount in materials, and in cash for the purchase of materials and payment of wages?
6. Annual rate of profit on the capital invested, since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed?
7. Cause of the increase (or decrease, as the case may be,) of profit?
8. Rates of profit on capital otherwise employed in the same State and county?
9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?
10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?
11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?
12. Number of men, women, and children employed, and average wages of each class?
13. How many hours a day employed; and what portion of the year?
14. Rate of wages of similar classes otherwise employed in the same State and county; in other States, and in foreign countries?
15. Number of horses, or other animals employed?
16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?
17. Whether foreign articles of the like kind enter into competition with them at such place of sale; and to what extent?
18. Where are the manufactures consumed?
19. Whether any of the manufactures are exported to foreign countries? and if so, where?
20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?

## ANSWERS.

1. Sussex county, Delaware.
2. Leather. Horse power.
3. 15 years; alone.
4. \$1,000.
5. 500 stock and materials; one bank \$60 per annum; bark grinder 2 dolls. per month.
6. \$150 profit.
7. About regular.
8. Can't say.
9. Common country leather.
10. Can't say.
11. Can't say.
12. 2 men: one is my son; 1 boy.
13. From daylight till dark, all the year.
14. About 60 dollars.
15. 1 horse.
16. Sold at the manufactory; occasional lots of upper sent to Philadelphia, via Georgetown or Milton.
17. Can't say.
18. In the neighborhood.
19. No.
20. Sold for cash, and country produce.

## DOCUMENT 15.—No. 15—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                | ANSWERS.                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the material or the labor, and at what rate? | 21. Can't say.                                                      |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                      | 22. Sole leather from 25 to 30 cts.; upper \$1 50 to 3 00 per side. |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                | 23. Can't say.                                                      |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                          | 24. Can't say.                                                      |

*Near Georgetown.*

AARON MARVEL

## DOCUMENT 15.—No. 16.

*Sole Leather Manufactory, Georgetown, Sussex County, State of Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                                                        | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                         | 1. Sussex county, in the State of Delaware.                                                                                                                                                                                                                                                                                                                                      |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                              | 2. Sole leather; horse power.                                                                                                                                                                                                                                                                                                                                                    |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                           | 3. About the year 1811; till within three years, it was a joint stock concern: now owned exclusively by the said John Edwards.                                                                                                                                                                                                                                                   |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                   | 4. The yard is under an annual rent of \$150; the capital invested in machinery is considerable, say \$150.                                                                                                                                                                                                                                                                      |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                   | 5. I purchase, annually, \$2,000 worth of bark; \$8,000 worth of Spanish hides, &c. I pay for wages, labor, horse hire, &c., \$2,000 annually.                                                                                                                                                                                                                                   |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. To this question I cannot give a satisfactory answer, but for the last three years within that period I calculate, that, clear of the expenses of the yard, I make \$1,000 annually, or about 33 per cent. on the amount of capital invested: the difference between the rate of profit on that portion of the capital borrowed and that which is not borrowed is 6 per cent. |
| 7. Cause of the increase (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                            | 7. Profits have increased within the last two or three years: the number of tanners has been very considerably diminished within a few years; the capital invested, by means so great, and the demand has gradually increased, owing to the increasing trade and population of the country.                                                                                      |

## QUESTIONS.

Rates of profit on capital otherwise em-  
ployed in the same State and county?

Amount of articles annually manufac-  
tured since the establishment of the manu-  
factory? Description, quality, and value of  
kind?

Quantity and value of different kinds  
of materials used, distinguishing between  
foreign products and domestic products?

Cost in the United States of similar ar-  
ticles of manufacture imported from abroad,  
from what countries?

Number of men, women, and children  
employed, and average wages of each class?

How many hours a day employed, and  
portion of the year?

Rate of wages of similar classes  
otherwise employed in the same State and  
county, in other States, and in foreign coun-  
tries?

Number of horses or other animals em-  
ployed?

Whether the manufactures find a mar-  
ket at the manufactory? If not, how far they  
sent to a market?

Whether foreign articles of the like  
kind enter into competition with them at  
a place of sale, and to what extent?

Where are the manufactures consumed?

Whether any of the manufactures are  
exported to foreign countries? and if so, where?

Whether the manufacture is sold by  
manufacturer for cash? and if on credit,  
what credit? if bartered, for what?

Whether the cost of the manufactured  
article (to the manufacturer) has increased  
or decreased; and how much in each year  
since the establishment of the manufactory;  
whether the increase has been in the ma-  
terial or labor, and at what rate?

The prices at which the manufactures  
have been sold by the manufacturer since  
the establishment?

What rate of duty is necessary to en-  
able the manufacturer to enter into competition  
in the home market with similar articles im-  
ported?

Is any change necessary in levying or  
extending the duty on such articles to pre-  
vent fraud?

What has been the rate of your pro-  
fits annually, for the last three years? and if  
you are a joint stock company, what dividends  
have been received, and what portion of the  
income of the company has been converted  
into fixed capital, or retained as a fund for  
contingent or other objects, and therefore  
divided out annually?

## ANSWERS.

8. I suppose the profits are about equal to  
those stated in No. 6.

9. Annual amount of manufactured sole  
leather about \$15,000.

10. I deal exclusively in Spanish hides—  
See No. 5.

11. Can't say.

12. About six steady workmen, upon an  
average of \$15 per month. I have in family  
12 persons depending on my business.

13. From sunrise to sunset; allowing one  
hour for each meal of victuals in the day.

14. Can't say.

15. Three horses.

16. I sell my manufactured leather in Phi-  
ladelphia; distance 110 miles.

17. I believe there is no foreign competi-  
tion.

18. All every-where abouts.

19. Don't know.

20. Generally upon a credit of from 3 to  
6 months; frequently barter the manufactu-  
red article for raw hides, allowing cash value  
for both articles.

21. The manufactured article has increas-  
ed in value for the last two or three years;  
cost for labor has also increased; both, upon  
an average of, say 5 per cent. per annum.

22. I once obtained 30 cents per lb. for  
sole leather by the wholesale. This is the  
highest price; the lowest for which I have  
sold is 22 cents.

23. Can't say.

24. Not that I know of.

25. Profits average as No. 5. Accumula-  
ting capital invested in the business of the  
yard.

| QUESTIONS.                                                                                                                                                                                                                                                  | ANSWERS.                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                | 26. 1st. \$10,000; 2d. \$2,000; 3d. \$3,000. expenses to be deducted.—See No. 6                                                                                              |
| 27. What amount of the agricultural products of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                               | 27. Corn and fodder for horses, about \$200, besides my family expenses, and the expenses of my laborers.                                                                    |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                        | 28. Not knowing can't say.                                                                                                                                                   |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you manufacture at reduced prices? | 29. I should hold on, and do the best I could.                                                                                                                               |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                              | 30. Turn politician; offer for <del>share</del> and get an office; or become a nullifier of such laws.                                                                       |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                               | 31. Can't tell.                                                                                                                                                              |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                 | 32. Don't know.                                                                                                                                                              |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                | 33. Answered before.—See Nos. 5, 6, &c.                                                                                                                                      |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; and how gradual the reduction should be?                                                                                   | 34. Don't know. I am opposed to reductions: the mechanics and laborers ought to be supported.                                                                                |
| 35. If minimums should be abolished, and the duty assessed upon the real value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum?                                              | 35. Can't say.                                                                                                                                                               |
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                                                                                         | 36. Know not.                                                                                                                                                                |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                                                                 | 37. Unable to say.                                                                                                                                                           |
| 38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?                                                                                                                            | 38. Individual and household manufactures have been pretty considerable; since 1824 we have increased in population about 2,000,000: I am friendly to internal improvements. |
| 39. Average profit of money or capital in the United States?                                                                                                                                                                                                | 39. Vast sight too much to calculate.                                                                                                                                        |
| 40. Average rate of wages?                                                                                                                                                                                                                                  | 40. Don't know; different, as it respects the particular branch of industry.                                                                                                 |

JOHN RICHARDS.

## DOCUMENT 15.—No. 17.

*Hall and Hazzard, Tannery, Millon, Sussex County, Delaware.*

## QUESTIONS.

## ANSWERS.

1. State and county in which the manufactory is situated?
2. Kind or description of the manufactory; and whether water, steam, or other power?
3. When established, and whether a joint stock concern?
4. Capital invested in ground and buildings, and water power and machinery?
5. Average amount in materials, and in cash for the purchase of materials and payment of wages?
6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed?
7. Cause of the increase (or decrease, as the case may be,) of profit?
9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?
10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?
12. Number of men, women, and children employed, and average wages of each class?
13. How many hours a day employed, and what portion of the year?
15. Number of horses, or other animals employed?
16. Whether the manufacturers find a market at the manufactory? if not, how far are they sent to a market?
17. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?
18. Where are the manufactures consumed?
20. Whether the manufacture is sold by the manufacturer for cash? if on credit, at what credit? if bartered, for what?
21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the material or the labor, and at what rate?
25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually?

1. Sussex county, State of Delaware.
2. Tannery; horse power.
3. 1819; joint concern.
4. Twelve hundred dollars.
5. Two thousand five hundred dollars.
6. Four per cent.
7. So much manufactured.
9. Six hundred imported hides, amounting to twenty-five hundred dollars, and about four hundred American hides, amounting to eight hundred dollars.
10. Imported hides, net cost, eighteen dollars per hundred weight; American, six dollars per hundred lbs.
12. Four men at one hundred dollars per year.
13. Twelve hours, twelve months.
15. Two.
16. One hundred and fifty miles.
17. No.
18. United States.
20. Bartered for hides in the hair, and sold on four months' credit.
21. Increased at the rate of six per cent. in case of a demand for the manufactured article.
25. Six per cent.



## DOCUMENT 15.—No. 17—Continued.

| QUESTIONS.                                                                                                                                    | ANSWERS.                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 27. What amount of the agricultural products of the country is consumed in your establishment, and what amount of other domestic productions? | 27. Five hundred dollars.       |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                  | 33. Six thousand dollars clear. |
| 40. Average rate of wages?                                                                                                                    | 40. Ten dollars per month.      |

HALL AND HAZARD

## DOCUMENT 15.—No. 18.

*Sole Leather Manufactory, Sussex County, State of Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Delaware, Sussex county.                                                   |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Sole leather, and small quantity of per; horse power.                      |
| 3. When established; and whether a joint stock concern.                                                                                                                                                                                                                                              | 3. 1824; individual concern.                                                  |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                                                                                                                                                                                          | 4. \$1,000.                                                                   |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. \$4,000.                                                                   |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. \$500 per annum; can't say further.                                        |
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                                | 7. Profits remain about the same.                                             |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Can't say.                                                                 |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. 800 Spanish hides at from 4 to 5 dollars<br>150 uppers at from 2 to 3 "    |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. Can't answer.                                                             |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. 2 men and 1 boy: 13 dolls. a month for men; boy about 6 dolls. per month. |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                     | 13. From sun to sun all the year.                                             |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. 1 horse.                                                                  |

## DOCUMENT 15.—No. 18.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                | ANSWERS.                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                 | 16. Sent to Philadelphia; 120 miles.                                                        |
| 17. Whether foreign articles of the like kind enter into competition with them at each place of sale; and to what extent?                                                                                                                                                                                                                 | 17. Can't say.                                                                              |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                  | 18. Can't say.                                                                              |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                                                                  | 19. Can't say.                                                                              |
| 20. Whether the manufacture is sold by the manufacturer for cash? if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                    | 20. Commonly at 4 months; if bartered for hides, at cash price.                             |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year since the establishment of the manufactory; and whether the increase has been in the material or the labor, and at what rate?                                                                                | 21. There has been a gradual increase in the raw material, and in the manufactured article. |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                      | 22. Sole from 22 to 28 cts. per lb., upper from \$3 25 to \$4 50.                           |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                | 23. Can't say.                                                                              |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                          | 24. Can't say.                                                                              |
| 25. What has been the rate of your profits, usually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Can't say.                                                                              |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would cause you to abandon your business, or would you manufacture at reduced prices?                                                                                  | 29. Can't say.                                                                              |

WILLIAM TUNNELL.

## DOCUMENT 15.—No. 19.

*Arthur Milby's Furnace, Worcester County, Maryland.*

| QUESTIONS.                                                | ANSWERS.                       |
|-----------------------------------------------------------|--------------------------------|
| 1. State and county in which the manufactory is situated? | 1. Maryland, Worcester county. |

## DOCUMENT 15.—No. 19—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. A furnace, with water power.                                                                                                                                                                                 |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Went into operation in October, 1851 and is a joint concern.                                                                                                                                                 |
| 4. Capital invested in ground and buildings, and water power and in machinery?                                                                                                                                                                                                                       | 4. The sum of \$6,000 was struck by to carry it into operation, but whether it has taken more I cannot tell.                                                                                                    |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. Twenty thousand dollars for materials and payment of wages.                                                                                                                                                  |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. Cannot answer, as no dividend have been struck.                                                                                                                                                              |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. About 20 horses and mules.                                                                                                                                                                                  |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                            | 16. From 250 to 500 miles.                                                                                                                                                                                      |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale; and to what extent?                                                                                                                                                                            | 17. They do, and very much to the injury of the iron business: not prepared to say precisely how much.                                                                                                          |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. In the United States.                                                                                                                                                                                       |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                             | 19. I do not know of any, so where.                                                                                                                                                                             |
| 20. Whether the manufacture is sold by the manufacturer for cash? if on credit, at what credit? if bartered, for what?                                                                                                                                                                               | 20. They are at times glad to make sale most any way they can.                                                                                                                                                  |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                           | 23. I am not able to say what duty: this I leave to the good sense of Congress to take care of their own country.                                                                                               |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                     | 24. Not being acquainted with law, I cannot answer.                                                                                                                                                             |
| 27. What amount of the agricultural products of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                        | 27. Say 7,000 bushels grain; 7,000 dollars worth domestic goods.                                                                                                                                                |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you manufacture at reduced prices?                                          | 29. I cannot answer the precise duty that ought to be on; but one thing I say, if the manufacture of iron is not encouraged more than what it is, many thousands must be thrown out of business, and be ruined. |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                       | 30. If the duty on foreign iron is taken off or reduced, I should have to quit very soon, or have no capital to employ at any thing.                                                                            |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                        | 31. Farming is a poor business to make money, but I think more safe.                                                                                                                                            |

DOCUMENT 15.—No. 19—Continued.

| QUESTIONS.                                                                                                                                                             | ANSWERS.                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 1. Amount of capital; and what proportion the borrowed capital bears to that which is all?                                                                             | 33. I fear the borrowed capital is much the greatest.                                              |
| 1. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent.; how gradual the reduction should be? | 34. I think there are but few that clear six per cent. at the present duties.                      |
| 3. What would be the operation of this change upon the <i>francs</i> at present supposed to be practised?                                                              | 36. I am afraid it would be awful.                                                                 |
| 3. Extent of individual and household manufacture in the United States, and how it has increased since the tariff of 1824?                                             | 38. I cannot answer the above correctly; but I think there has been a great change for the better. |
| 1. Average rate of wages?                                                                                                                                              | 40. For iron works \$ 20 per month.                                                                |

ARTHUR MILBY.

DOCUMENT 15.—No. 20.

*Aaron Marshall, jun.'s Iron Furnaces, (in New Jersey,) Milton, Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                                                      | ANSWERS.                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                       | 1. In Cumberland and in Weymouth, in New Jersey.                                                                                                                                                                                                                                                                                 |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                            | 2. Two furnaces in manufacturing of iron, with water power: one at Cumberland, and one at Weymouth, in New Jersey.                                                                                                                                                                                                               |
| 3. When established; and whether a joint concern?                                                                                                                                                                                                                                               | 3. About the year 1814.                                                                                                                                                                                                                                                                                                          |
| 4. Average amount in materials, and in the purchase of materials and payment of wages?                                                                                                                                                                                                          | 5. The amount of wages paid by Aaron Marshall, jun., for digging and casting of 2500 tons, and purchasing materials, yearly, as near as can be ascertained, \$5200 dollars, for ore raised and delivered at Milton, for the use of Mr. Samuel Richard, Weymouth furnace, and Edward Smith, at Cumberland furnace, in New Jersey. |
| 5. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of fit upon that portion of the capital which is borrowed, after providing for the interest on it, and the rate of profit upon that portion which is not borrowed? | 6. The profits on the capital stock, as near as could be ascertained, about two thousand dollars.                                                                                                                                                                                                                                |
| 6. Cause of the increase (or decrease, as case may be,) of profit?                                                                                                                                                                                                                              | 7. The cause of decrease, the number of furnaces erected since 1814.                                                                                                                                                                                                                                                             |
| 2. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                                                                 | 12. About 40 men per month, at 15 or 18 dollars.                                                                                                                                                                                                                                                                                 |
| 3. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                 | 13. About 10 hours a day, and from six to ten months.                                                                                                                                                                                                                                                                            |
| 4. Rate of wages of similar classes otherwise employed in the same State and county; in other States; and in foreign countries?                                                                                                                                                                 | 14. Wages from 15 to \$18 per month.                                                                                                                                                                                                                                                                                             |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                          | 15. About 50 horses and 50 yoke of oxen.                                                                                                                                                                                   |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                                                                                                | 16. To New York and Philadelphia.                                                                                                                                                                                          |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                                                                | 17. Foreign articles are sold at a low price, but are inferior.                                                                                                                                                            |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                 | 18. In the United States.                                                                                                                                                                                                  |
| 20. Whether the manufacture is sold by the manufacturer for cash? if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                   | 20. Mostly on a credit or barter for iron or other produce of our own country.                                                                                                                                             |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the material or the labor, and at what rate?                                                                                | 21. The labor has decreased yearly, and also the price of iron, in which these furnaces is made.                                                                                                                           |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                     | 22. The iron, in the year 1831, was sold for fifty cents per hundred lbs in 1829 and 1830.                                                                                                                                 |
| 25. What has been the rate of your profits annually for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. The rate of profits for the last three years, in carting and hauling, and getting delivered at Milton, 2,500 tons of ore, to be carried to the two furnaces in New Jersey, would be about two thousand dollars yearly. |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                             | 26. The cost of the iron ore in the hole is about 75 cents; cost for labor and carting and other expenses \$2 25 cents per ton, delivered at Milton, and from \$1 75 to \$1 25 freight to the different furnaces.          |
| 27. What amount of the agricultural products of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                            | 27. About 2500 bushels of corn, and about 3000 dollars' worth of domestic goods.                                                                                                                                           |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                     | 28. Iron is made at Indian river furnace but cannot say how much.                                                                                                                                                          |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 13½ per ct., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you manufacture at reduced prices?                                                                                | 29. If the duty on foreign manufacture of iron were reduced so as to be corresponding reduction on imports, I should be under the necessity of abandoning the business, and employ my stock in agriculture.                |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits, even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                           | 31. In cultivating the land and making grain.                                                                                                                                                                              |
| 40. Average rate of wages?                                                                                                                                                                                                                                                                                                               | 40. Seventeen dollars per month.                                                                                                                                                                                           |

DOCUMENT 15.—No. 21.

*Bar Iron Bloomery Forge, Sussex County, State of Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>State and county in which the manufactory is situated?</p> <p>Kind or description of the manufactory; whether water, steam, or other power?</p> <p>When established; and whether a joint concern?</p> <p>Capital invested in ground and build- and water power, and machinery?</p> <p>Cause of the increase (or decrease, as case may be,) of profit?</p>                                                                                                                                                                        | <p>1. Sussex county, State of Delaware.</p> <p>2. Bar iron bloomery forge; water power.</p> <p>3. Individual concern.</p> <p>4. \$3,500.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p>Amount of articles annually manufac- tured since the establishment of the manu- factory? Description, quality, and value of kind?</p> <p>1. Quantity and value of different kinds of materials used; distinguishing between foreign products and domestic products?</p>                                                                                                                                                                                                                                                          | <p>7. The profits have decreased, owing chiefly to the markets being glutted with foreign iron, and the consequent necessity of holding the article on hand often twelve months for want of sale.</p> <p>9. From twenty-five to forty tons of bar iron, best quality of American hammered iron.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>1. Number of men, women, and children employed, and average wages of each class?</p> <p>1. How many hours a day employed, and portion of the year?</p>                                                                                                                                                                                                                                                                                                                                                                           | <p>10. From 25,000 to 40,000 bushels of charcoal, worth, at the manufactory, 4 cents per bushel; also from 100 to 160 tons best rock ore from Bogsworth, at the manufactory, \$4 per ton; also scrap iron, quantity uncertain, worth from 1½ to 2 cents per pound; no foreign products used.</p> <p>12. From 30 to 40 men; average wages about \$15 per month.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p>5. Number of horses or other animals employed?</p> <p>5. Whether the manufactures find a market at the manufactory? If not, how far they sent to a market?</p> <p>7. Whether foreign articles of the like enter into competition with them at such a sale, and to what extent?</p>                                                                                                                                                                                                                                               | <p>13. Foremen, colliers, and teamsman from 12 to 15 hours per day, and about 10 months per annum; wood choppers and ore-raisers 12 hours per day, and one-fourth of the year.</p> <p>15. 5 horses: 1 yoke of oxen.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <p>3. Where are the manufactures consumed?</p> <p>9. Whether any of the manufactures are exported to foreign countries? and if so, where?</p> <p>0. Whether the manufacture is sold by manufacturer for cash? if on credit, at what credit? if bartered, for what?</p> <p>1. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year since the establishment of the manufactory; whether the increase has been in the material or the labor, and at what rate?</p> | <p>16. One-third at or near the manufactory; the remainder sent to a market at the distance of 200 miles.</p> <p>17. Foreign articles do enter into competition both at or near the manufactory, and at all other places of sale to almost a ruinous extent, so that we are often compelled to hold the article on hand twelve months or more, subjecting us to expenses and interest that nearly or quite destroy all the profits—all we need is to have the market and ready sales.</p> <p>18. In the United States.</p> <p>19. Not exported.</p> <p>20. Some for cash; chiefly at four and six months.</p> <p>21. Some have increased; others decreased. Laborers' wages have decreased somewhat. We should be very sorry for the wages of the laboring poor to be so decreased as to bring the freeborn sons of America to the level of the half-starved population of Europe.</p> |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. The prices have varied considerably, never so low as at the present.                                                                                                                                           |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. No less than heretofore: the American manufactures can supply the market abundantly, at fair prices, without any foreign iron.                                                                                 |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. Allow no drawback on railroad iron.                                                                                                                                                                            |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. The profits have been very small.                                                                                                                                                                              |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. The larger portion consists in the wages of laborers.                                                                                                                                                          |
| 27. What amount of the agricultural products of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                              | 27. From 1,200 to 1,500 bushels of grain; from 2,000 to 2,500 pounds of bacon, lard, and lard; and a considerable quantity of domestic cotton goods, tobacco, &c.                                                  |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States; and what amount in your own State?                                                                                                                                                                                                       | 28. I cannot tell.                                                                                                                                                                                                 |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you manufacture at reduced prices?                                                                                | 29. I must abandon the business.                                                                                                                                                                                   |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. Don't know how.                                                                                                                                                                                                |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                              | 31. Yes; many.                                                                                                                                                                                                     |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                                                                                                | 32. I know of no iron manufacture affected by foreign competition.                                                                                                                                                 |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; and how gradual the reduction should be?                                                                                                                                                                  | 34. To make any reduction is to ruin the American manufacturer. If the American manufacturers can have the entire market they can make iron even lower than they are doing: without the entire market they cannot. |
| 35. If minimums should be abolished, and the duty assessed upon the real value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum?                                                                                                                             | 35. I think the present method is the best.                                                                                                                                                                        |
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                                                                                                                                                                        | 36. I conceive it would have no effect: the smuggler would be a smuggler still.                                                                                                                                    |

## DOCUMENT 15.—No. 21—Continued.

| QUESTIONS.                                                                         | ANSWERS.                                                                                                  |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Proportion which the production by American manufacturers bears to the assumption? | 37. The American manufactories can make all the iron the market needs to give it a full and ample supply. |

SOLOMON PRETTYMAN.

## DOCUMENT 15.—No. 22.

*Iron Ore, Milton, Sussex County, New Jersey.*

| QUESTIONS.                                                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| State and county in which the manufactory is situated?<br>Kind or description of the manufactory, whether water, steam, or other power?<br>Average amount in materials, and in for the purchase of materials and payment of wages?<br><br>Cause of the increase (or decrease, as case may be) of profit. | 1. In Cumberland county, State of New Jersey.<br>2. A furnace, with water power.                                                                                  |
| 1. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                         | 5. I furnish from 1500 to 1800 tons of ore for said furnace; the amount of wages paid hands employed in raising and carting the above ore is about 4,700 dollars. |
| 1. How many hours a day employed, and portion of the year?                                                                                                                                                                                                                                               | 7. There has been within a few years a considerable decrease of profit, occasioned, in my opinion, from the competition between the furnaces.                     |
| 1. Rate of wages of similar classes elsewhere; employed in the same State and county; other States; and in foreign countries?                                                                                                                                                                            | 12. I have about 20 hands employed in raising the ore, besides a number to haul it, and pay them \$15 per month.                                                  |
| 1. Number of horses or other animals employed?                                                                                                                                                                                                                                                           | 13. The hands are employed about eight hours a day, and six months in the year.                                                                                   |
| 1. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year since the establishment of the manufactory; whether the increase has been in the material or the labor, and at what rate?                                                    | 14. The rate of similar classes of hands in other employment, is about \$13 per month.                                                                            |
| 1. What amount of the agricultural products of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                             | 15. There are a number of horses or other animals employed in carting our ore, but from the manner employed, I am unable to say the precise number.               |
| 1. If it would cause you to abandon your business, in what way would you employ capital?                                                                                                                                                                                                                 | 21. Has decreased yearly; and also the price on iron which the furnaces have made.                                                                                |
| 1. Extent of individual and household manufacture in the United States, and how has it increased since the tariff of 1824?                                                                                                                                                                               | 27. I suppose it requires 1500 bushels of corn to carry on the business of raising and carting the ore, and about \$1800 in domestic goods.                       |
| 1. Average rate of wages?                                                                                                                                                                                                                                                                                | 30. I am at present at a loss to say in what way, but in no way that would be so beneficial.                                                                      |
|                                                                                                                                                                                                                                                                                                          | 38. A great change for the better.                                                                                                                                |
|                                                                                                                                                                                                                                                                                                          | 40. Is about \$15 per month for laborers engaged in the aforesaid business.                                                                                       |

ASA HAINES. .

MILTON, DELAWARE, March 6, 1832.



## DOCUMENT 15.—No. 23.

*P. F. Causey's Quercitron Bark Manufactory, &c. Sussex County, Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Sussex county, State of Delaware.                                                                              |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Water power mills for manufactory quercitron bark and crushing flax.                                           |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Established in the years 1836 and 1838 and individual stock.                                                   |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                                                                                                                                                                                          | 4. Three thousand dollars.                                                                                        |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. Five thousand four hundred dollars.                                                                            |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. Not known.                                                                                                     |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. Decrease on quercitron bark and by the quantity manufactured.                                                  |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Not known.                                                                                                     |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. 250 tons quercitron bark, first quality, 2,100 gallons linseed oil, first quality.                             |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. 500 cords black oak bark, value \$5 per cord; 1,500 bushels flax seed, value \$1.50 per bushel; all domestic. |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. Not known.                                                                                                    |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. Ten men at 60 cents per day.                                                                                  |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                     | 13. Twelve hours; twelve months.                                                                                  |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 14. Rate of wages in same county, from ten to eighteen dollars per month.                                         |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                                                            | 16. To the cities of Philadelphia and New York.                                                                   |
| 17. Whether foreign articles of the like kind, enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                           | 17. Bark excepted.                                                                                                |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. Quercitron bark mostly in Europe, in the United States.                                                       |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                             | 19. None.                                                                                                         |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                           | 20. For cash.                                                                                                     |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased, and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                           | 21. Decrease in labor 25 per cent. first past year.                                                               |

## DOCUMENT 15.—No. 23.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                              | ANSWERS.                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 1. The prices at which the manufactures have been sold by the manufacturer since establishment?                                                                                                                                                         | 22. Quercitron bark per ton from \$ 36 to \$ 22; oil per gallon from 72 cts. to 100 cents. |
| 2. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                               | 23. On linseed oil 50 per cent.                                                            |
| 3. If the duty upon the foreign manufacture of the kind of goods which you make reduced to 12½ per cent., with a corresponding reduction on all the imports, would you be obliged to abandon your business, or could you manufacture at reduced prices? | 29. It would cause me abandon the manufacture of oil.                                      |
| 4. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                           | 30. I know of nothing better than an office under the present administration.              |
| 5. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duty to 12½ per cent.?                                                                                              | 31. Refer to the above.                                                                    |
| 6. Are not the manufactures of salt and remets from the points of importation, of foreign competition within a certain circle around them, and what is the extent of the circle?                                                                        | 32. I think not.                                                                           |
| 7. Amount of capital; and what proportion the borrowed capital bears to that which is your own?                                                                                                                                                         | 33. None borrowed.                                                                         |
| 8. Average rate of wages?                                                                                                                                                                                                                               | 40. From 15 to 18 dollars per month.                                                       |

As it respects the raising, hauling, and delivering of iron ore to the different furnaces situated in New Jersey, from the county of Sussex, in the State of Delaware, I will refer you to the report of Aaron Marshall, jr., with an additional aggregate of 20 per cent. (excepting of the net profits.)

P. F. CAUSEY.

MILFORD, DELAWARE, March 7, 1832.

## DOCUMENT 15.—No. 24.

## STATISTICAL TABLE OF SUSSEX COUNTY, DELAWARE.

*D. Waples, of Sussex County, Delaware, Iron Master. Manufactory, a blast furnace converting bog ore into castings and pigs: goes by water power. Expenditures paid principally in merchandise; if paid in cash, the business would be a losing concern. A reduction of the duties on iron would cause an abandonment of the business.*

Capital invested in ground and buildings, water power and machinery, \$15,000.  
Average amount in materials, and in cash for purchase of materials and payment of wages, \$300.

Value of pigs and castings annually manufactured, \$25,500.

Value of different kinds of raw materials used, all domestic, \$24,060.

Men employed, 35.

Boys employed, 10.

Wages for nine months, \$6,210.

Wages employed, 30.

Wages employed, 85.

Men employed coaling, ore raising, wood chopping and hauling, 45.

## DOCUMENT 15.—No. 24.—STATISTICAL TABLE—Continued.

*John Prettyman, of Sussex County, Delaware, Iron Master. Manufactory, a bar iron hammer forge: goes by water power.*

Capital invested in ground and buildings, water power and machinery, \$3,500.

Value of materials used, to wit, charcoal and rock ore, \$1,820.

Quantity of bar iron annually manufactured, of best quality, from 25 to 40 tons—say 33—worth \$24,060.

Men employed, 40.

Wages of 40 men per year, at \$15 per month per man, \$7,200.

Number of horses; 5 horses and 1 yoke of oxen.

Bushels of grain, from 12 to 1,500; say 1,350 bushels.

Pounds of meat used, from 2,000 to 2,500; say 2,250 pounds.

*Beds of Iron Ore in Sussex County, Delaware.*

| CONTRACTORS.     | Men employ'd digging, hauling, & delivering 2,500 tons iron ore annually, for use of 2 furnaces in N. Jersey. | Wages, and purchasing materials. | Horses employed. | Yokes of oxen. | Rate of profits for last 3 yrs, in carting, hauling, and delivering at Milton, 2,500 tons ore, to be transported to 2 furnaces in N. Jersey, about \$2,000 yearly. | Grain & domestic productions. |
|------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------|------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Aaron Marshal, - | 40                                                                                                            | \$5,200                          | 50               | 50             | \$2,000                                                                                                                                                            | \$4,250                       |
| Asa Haines,* -   | 20                                                                                                            | 1,800                            | unknown          |                |                                                                                                                                                                    |                               |
| Aggregate, -     | 60                                                                                                            | \$7,000                          | 50               | 50             | \$2,000                                                                                                                                                            | 4,250                         |

\* 1,650 tons ore.

*Manufacturers of Leather, in Sussex County, Delaware.*

|                 | Am't invested in ground,<br>buildings, water power,<br>and machinery. | Amount in materials, bark,<br>and hides. | Wages, horse hire, &c. | Value of leather manufac-<br>tured annually. | Number of workmen em-<br>ployed. | Wages.  | Number of horses. | Profits.    | Value of agricultural pro-<br>ducts consumed annually. |
|-----------------|-----------------------------------------------------------------------|------------------------------------------|------------------------|----------------------------------------------|----------------------------------|---------|-------------------|-------------|--------------------------------------------------------|
| John Richards,  | \$150†                                                                | \$10,000                                 | \$2,000                | \$15,000                                     | 6                                | \$1,080 | 3                 | \$3,000     | \$300                                                  |
| Hall & Hazard,* | 1,200                                                                 | 5,800                                    | -                      | -                                            | 4                                | 400     | 2                 | 4 per cent. | 500                                                    |
| Wm. Tunnell,    | 1,000                                                                 | 4,000                                    | -                      | -                                            | 2 & 1 boy                        | 384     | 1                 | 500         |                                                        |
| Aaron Marrel,   | 1,000                                                                 | 584                                      | -                      | -                                            | 2 & 1 boy                        | 384     | 1                 | 150         |                                                        |
| Aggregate       | \$3,350                                                               | \$20,384                                 | \$2,000                | \$15,000                                     | 14 & 2 boys                      | \$2,248 | 7                 | \$7,650     | \$700                                                  |

• Six thousand dollars annually. •

† Machinery only.

## DOCUMENT 15.—No. 25.

*Robert Hilton & Sons' Roan Cassimere Manufactory, New Castle County, Delaware.*

## QUESTIONS.

1. State and county in which the manufactory is situated?

2. Kind or description of the manufactory; and whether water, steam, or other power?

3. When established; and whether a joint stock concern?

4. Capital invested in ground and buildings, and water power, and in machinery?

5. Average amount in materials, and in cash for the purchase of materials and payment of wages?

7. Cause of the increase (or decrease, as the case may be,) of profit?

9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?

10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?

11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?

12. Number of men, women, and children employed, and average wages of each class?

13. How many hours a day employed; and what portion of the year?

15. Number of horses or other animals employed?

16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?

17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?

18. Where are the manufactures consumed?

19. Whether any of the manufactures are exported to foreign countries? and if so, where?

20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?

21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?

22. The prices at which the manufactures have been sold by the manufacturer since the establishment?

## ANSWERS.

1. Near Wilmington, New Castle County, Delaware, situate on the Brandywine creek.

2. Cotton yarn; roan cassimeres equal in quality to any imported; water power.

3. A. D. 1825; Robert Hilton & Son.

4. \$20,000; \$45,892; aggregate \$65,892.

5. 150,000 lbs. cotton — \$ 20,625

3,200 lbs. wool — \$ 3,712

\$ 13,152 25 per annum for the wages of workmen.

7. The quantity of the manufactured articles in market is the secondary cause of fluctuation.

9. Roan cassimere 68,200 yards at 40 cts. per yard; 135,000 lbs. cotton yarn, average price 30 cents per lb.

10. See answer to 5th question. No importation of materials to my knowledge.

11. Roan cassimere, 1829, imported from France, sold at 43 cents per yard; domestic ditto. Since 1829, I have no knowledge of any importations.

12. Fifty-two men, women, and children.

13. Twelve hours per day throughout the year.

15. One horse.

16. Philadelphia, Baltimore, New York, and South America.

17. No competition in the preceding specified articles, to my knowledge.

18. Do not know.

19. South America about the value of ten thousand dollars.

20. Six months' credit.

21. Not prepared to answer at present.

22. In 1829 roan cassimeres 43 cts. p. yd.

1830 do 30 do

1831 do 28 do

1832 do 16 do

## DOCUMENT 15.—No. 25—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                  | ANSWERS.                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you manufacture at reduced prices? | 29. Abandon the business. |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                              | 30. Loss the capital.     |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                               | 31. Yes.                  |

## DOCUMENT 15.—No. 26.

*John Vandegrift, Wool Carding, New Castle County, Delaware.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Delaware State, New Castle county.                                    |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Wool carding; water power.                                            |
| 3. When established; and whether a joint stock concern?                                                                               | 3. Established seven years since; private.                               |
| 4. Capital invested in ground and buildings, and water power and in machinery?                                                        | 4. One thousand dollars.                                                 |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. Fifty dollars; \$ 16 per month.                                       |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. About 1,000 lbs. per annum; value seven cents per pound, common wool. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?       | 10. 1,000 lbs. per annum; seven cents per pound; domestic.               |
| 12. Number of men, women, and children, employed, and average wages of each class?                                                    | 12. One man.                                                             |
| 13. How many hours a day employed, and what portion of the year?                                                                      | 13. From sun to sun; four months in the year.                            |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                             | 16. Card for other people.                                               |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?            | 17. No competition.                                                      |

JACOB VANDEGRIFT,  
for JOHN VANDEGRIFT.

## DOCUMENT 15.—No. 27.

*Wool Carding and Spinning Manufactory, Sussex County, State of Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. State and county in which the manufactory is situated?</p> <p>2. Kind or description of the manufactory, and whether water, steam, or other power?</p> <p>3. When established; and whether a joint stock concern?</p> <p>4. Capital invested in ground and buildings, and water power and machinery?</p> <p>5. Average amount in materials, and in cash for the purchase of materials and payment of wages?</p> <p>9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?</p> <p>10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?</p> <p>12. Number of men, women, and children employed; and average wages of each class?</p> <p>16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?</p> <p>17. Whether foreign articles of the like kind enter into competition with them at such place of sale; and to what extent?</p> <p>18. Where are the manufactures consumed?</p> <p>19. Whether any of the manufactures are exported to foreign countries? and if so, where?</p> <p>20. Whether the manufacture is sold by the manufacturer for cash? if on credit, at what credit? if bartered, for what?</p> <p>29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent. with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you manufacture at reduced prices?</p> <p>30. If it would cause you to abandon your business, in what way would you employ your capital?</p> | <p>1. Delaware, New Castle county.</p> <p>2. Wool carding and spinning; water, and cloth making.</p> <p>3. In 1831; private.</p> <p>4. \$1,500.</p> <p>5. \$1,000 worth of country wool; \$25 laid out for wool on my own account.</p> <p>9. Made last year 200 yards of cloth worth from \$1 25 to \$1 50 per yard for myself, and about 100 yards for customers, worth about the same price.</p> <p>10. 2,000 lbs. wool from customers, 100 lbs. for self.</p> <p>12. 1 man, 1 boy.</p> <p>16. Chiefly sold at the manufactory.</p> <p>17. None.</p> <p>18. In the neighborhood.</p> <p>19. None.</p> <p>20. Cash.</p> <p>29. Could bear no reduction of duty upon such cloth as I make.</p> <p>30. Turn farmer.</p> |

HENRY CLARK.

## DOCUMENT 15.—No. 28.

*Cotton Manufactory, Wilmington, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. In the State of Delaware, Newcastle county, situated on the Brandywine, in the city of Wilmington.                                                                                                                                                                                                                                      |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Manufactures cotton yarns from No. 8 to 30; the water power is owned by the city, and the water is pumped at night, for the use of the city, by a pump attached to the mill.                                                                                                                                                            |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Established by two individuals in 1829, but, owing to the depressed state of the business in that and the next year, they became embarrassed, and their effects were sold by the sheriff to pay their debts, but fell short more than fifty per cent.                                                                                   |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. The mill and property cost the citizens twenty-eight thousand dollars; the machinery now in the mill valued at 10,000 dollars.                                                                                                                                                                                                          |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. We say about six thousand dollars.                                                                                                                                                                                                                                                                                                      |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. Those engaged in the establishment in 1829 and '30, must have sustained considerable loss, and no doubt would have been much better off had they been clear of the concern during that time. For the last year the business has met a fair profit, and no doubt much better than it will do for two years to come.                      |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. The cause of the increase in the price and profit was, no doubt, owing to the scarcity of goods in the market, and that scarcity was produced by the goods in the market being lower than could be afforded by those in the business, to manufacture them; the natural consequence was, that the stock should run out, and goods raise. |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. We know but little about the business or profits of others in this State or county; but, from observation, presume that no business yields less profit than farmers who depend entirely on slave labor.                                                                                                                                 |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. We manufactured last year about 128,000 lbs. yarn, valued at 30,000 dollars.                                                                                                                                                                                                                                                            |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. About 400 bales of cotton, value \$14,000; 250 gallons oil, valued at \$212; sundries, \$100.                                                                                                                                                                                                                                          |
| 11. Number of men, women, and children, employed, and average wages of each class?                                                                                                                                                                                                                   | 12. We have 9 men, 12 women, and 31 children. The men average about \$7 50 per week; the women \$2; the children from \$1 to \$1 50.                                                                                                                                                                                                       |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                     | 13. Are employed about 11½ hours per day the year round.                                                                                                                                                                                                                                                                                   |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, other States, and in foreign countries?                                                                                                                                                                        | 14. Girls wages is about 75 cents per week and found, or boarded at house work; at quarrying and dressing stone for railroads, good hands get from 1 dollar to \$1 75 per day.                                                                                                                                                             |



## DOCUMENT 15.—No. 29.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15. Number of horses or other animals employed?                                                                                                                                                                                                            | 15. None.                                                                                                                                                                                                                                                                                                                                      |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                  | 16. Our sales are made in Philadelphia, about 28 miles distant: have water communication about ten months in the year.                                                                                                                                                                                                                         |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                 | 17. We can say nothing certainly, but presume they do to a considerable extent.                                                                                                                                                                                                                                                                |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                   | 18. Principally in this country; some in the East and West Indies. Large quantities of heavy cotton goods are now manufactured and purchased to the South for negro clothing in winter.                                                                                                                                                        |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                 | 20. Part of what we manufacture is sold by us on credit; the balance is sold by an agent, nearly all on credit of 4 and 6 months.                                                                                                                                                                                                              |
| 27. What amount of the agricultural products of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                              | 27. There are about 150 barrels flour, valued . . . \$30<br>Fuel . . . . . 30<br>Meat, vegetables, &c. . . . 50<br>\$110                                                                                                                                                                                                                       |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                       | 28. We are not prepared to answer this question.                                                                                                                                                                                                                                                                                               |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent, with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you manufacture at reduced prices? | 29. We have no doubt it would cause us to give up our business for a few years, and perhaps all others; but we think that we could retain their property a few years, might realize a fortune suddenly by it; but, as soon as our English friends find they have got us fairly on their backs, they would put up the price 50 or 100 per cent. |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                             | 30. I think I should not have much capital to dispose of; but I could perhaps be appointed Secretary of the Treasury: that would do very well.                                                                                                                                                                                                 |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent?                                                                                               | 31. I should expect to save more money if I was appointed ambassador to some foreign port, and got the usual fee.                                                                                                                                                                                                                              |

GARRETT &amp; PUSEY.

## DOCUMENT 15.—No. 29.

*Cotton Yarn Manufactory, Newcastle County, State of Delaware.*

| QUESTIONS.                                                                           | ANSWERS.                                                   |
|--------------------------------------------------------------------------------------|------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. On the Brandywine, Newcastle county, State of Delaware. |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. Water power.                                            |

## DOCUMENT 15.—No. 29—Continued.

## QUESTIONS.

## ANSWERS.

3. When established; and whether a joint stock concern?

4. Capital invested in ground and buildings, and water power and machinery?

5. Average amount in materials, and in cash for the purchase of materials and payment of wages?

6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of the profit upon that portion which is not borrowed?

8. Rates of profit on capital otherwise employed in the same State and county?

9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?

10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?

12. Number of men, women, and children employed, and average wages of each class?

13. How many hours a day employed, and what portion of the year?

15. Number of horses or other animals employed?

16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?

17. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?

18. Where are the manufactures consumed?

19. Whether any of the manufactures are exported to foreign countries? and if so, where?

20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?

21. Whether the cost of the manufactured article (to the manufacturer,) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the material or the labor and at what rate?

22. The prices at which the manufactures have been sold by the manufacturer since the establishment?

23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?

3. We established here about the 1st of September, 1831; there are four in company, viz. James B. Hutchinson, John Waters, Thomas Laird, and Moses Redpath.

4. The ground, water power, and buildings, we rent, (supposed cost) 40 to \$45,000; machinery cost us over \$27,000.

5. Our stock, &c., about \$4,000; wages paid to hands is all cash, about \$800 per week.

6. We have none borrowed; our profits have not exceeded eight per cent.

8. I have not made the inquiry; and, if I should, I fear I should get some short answers.

9. We make about 3,500 lbs. of cotton yarn weekly, fair quality, worth from 24 to 28 cents per pound, (owing to the quality and number.)

10. We use from 3,900 to 4,000 pounds of cotton per week, domestic.

|                              |       |
|------------------------------|-------|
| 12. 15 men, wages, per week, | \$6 4 |
| 20 women, do                 | 2 21  |
| 40 children, do              | 1 47  |

13. 12 hours in the day, and all the year.

15. 2 horses.

16. No market at the factory; we send our yarn to Philadelphia, about 31 miles.

17. There is no yarn imported of the numbers we are making.

18. In the United States.

19. South America.

20. On a credit of from 4 to 6 months generally.

21. We have only had this factory in operation about eight months.

22. Number 15's yarn at 25 cents per lb.

23. The present rate of duty.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. I do not know of any.                                                                                                                                                                                  |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. The honorable Secretary can estimate the profits from what he made while engaged in the business.                                                                                                      |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. The cotton cost 11 cents per lb, was 9 cents, wages 8 cents—is 21 cents. No. 15, yarn is worth 25 cents—leaves 4 cents to pay rent, fuel, light, oil, wear and tear of machinery, &c.                  |
| 27. What amount of the agricultural products of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                              | 27. There is 171 persons supported by this factory, who are all supplied by the farmers of the neighborhood.                                                                                               |
| 28. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you manufacture at reduced prices?                                                                                | 29. We should abandon our business.                                                                                                                                                                        |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. If we abandon our business, our capital is all in machinery, which would be used nothing, therefore we would have no capital; in that case I should turn politician, and bet to Government for office. |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                              | 31. If that should take place, I am of opinion that there will be very few pursuits worth following.                                                                                                       |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                                                                                               | 33. We have \$37,000 in machinery, and not a dollar borrowed.                                                                                                                                              |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; and how gradual the reduction should be?                                                                                                                                                                  | 34. The present rate of duty does but very little more; and if there should be a reduction, it would not yield an interest of 6 per cent.                                                                  |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                                                                                                                                                | 37. In coarse cottons, we can scarcely supply all the United States.                                                                                                                                       |
| 38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?                                                                                                                                                                                                           | 38. 50 per cent.                                                                                                                                                                                           |
| 40. Average rate of wages?                                                                                                                                                                                                                                                                                                                 | 40. Average rate per week of all the hands employed in the factory is \$3.                                                                                                                                 |

J. B. HUTCHINSON & CO.  
Per J. B. HUTCHINSON.

BRANDYWINE, March 12, 1832.

DOCUMENT 15.—No. 30.

*Tabular Statement for the Cotton and Woollen Manufactories in Newcastle County, Delaware.*

| Names of manufactur-<br>tures.                                                              | Capital invested in<br>ground, buildings,<br>water power, & ma-<br>chinery. | Average amt in ma-<br>terials, cash for pur-<br>chase of materials, &<br>payment of wages. | Amount of articles an-<br>nually manufactured. | Kinds.                                                                                                                   | Raw mate-<br>rials used.                                                                                                                                                                           | Quantity.                                         | No. of men, women, &<br>children employed. | Wages of men.   | Wages of women. | Wages of children. | Number of horses. | Prices at which the<br>manufactures sold<br>since the establish-<br>ment of the factory. | Amount of agricultural<br>products & other do-<br>mestic productions. | Value. |
|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------|-----------------|-----------------|--------------------|-------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------|
| Charles J. Dupont &<br>Co., woollen manu-<br>facturers                                      | \$50,000                                                                    | \$30,000                                                                                   | \$52,000                                       | Broadcloths, ker-<br>seys, and satinetts                                                                                 | Wool<br>Indigo<br>Glue<br>Madder, a-<br>lum, copper-<br>res, chemi-<br>cals, dye<br>woods, &c.,<br>value in A-<br>merican<br>products o-<br>ver 80 per<br>ct. on the a-<br>mount man-<br>ufactured | 60,000 lbs.<br>25,000 "<br>15,000 "               | 60                                         | \$20 per<br>mo. | \$8             | \$6 00             | 3                 |                                                                                          |                                                                       |        |
| Rob't Hilton & Sons,<br>manufacturers of<br>roan casimere and<br>spinners of cotton<br>yarn | 65,892                                                                      | 37,489                                                                                     | 51,412                                         | Roan casimere<br>68,200 yds., at<br>16 cts. per yd.;<br>cotton yarn 135,<br>000 lbs. average<br>price 30 cts. per<br>lb. | Cotton<br>Wool                                                                                                                                                                                     | 150,000 lbs.<br>\$20,625<br>3,200 lbs.<br>\$3,712 | 52                                         |                 |                 |                    | 1                 | Roan casimere<br>1829-49c-p.yd<br>1830-30c. do.<br>1831-28c. do.<br>1832-16c. do.        |                                                                       |        |

Document 15.—No. 30—Continued.

| Names of manufacturers.                        | Capital invested in ground, buildings, water power, & machinery. | Average amt in materials, cash purchase of materials, & payment of wages. | Amount of articles annually manufactured. | Kinds.                    | Raw materials used.                                                         | Quantity.                                                                   | No. of men, women, & children employed. | Wages of men.   | Wages of women. | Wages of children. | Number of horses. | Prices at which the manufactures sold since the establishment of the factory.                          | Amount of agricultural products & other domestic productions. | Value.  |
|------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------|---------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------|-----------------|-----------------|--------------------|-------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------|
|                                                |                                                                  |                                                                           |                                           |                           |                                                                             |                                                                             |                                         |                 |                 |                    |                   |                                                                                                        |                                                               |         |
| Jacob Pusey, cotton spinner                    | \$30,000                                                         | \$10,000                                                                  | \$15,300                                  | -                         | Cotton                                                                      | 350 bales                                                                   | 43                                      | \$6 per week    | 2 00            | 1 25               | 7                 | -                                                                                                      | -                                                             | -       |
| John Vandegrift, wool carder                   | 1,000                                                            | 50                                                                        | 70                                        | -                         | Common wool                                                                 | 1,000 lbs. at 7 cts.                                                        | 1                                       | -               | -               | -                  | -                 | -                                                                                                      | -                                                             | -       |
| Henry Clark, manufacturer of wool              | 1,500                                                            | 1,000                                                                     | 400                                       | Cloth                     | Country wool                                                                | 2,100 lbs.                                                                  | 2                                       | -               | -               | -                  | -                 | -                                                                                                      | -                                                             | -       |
| Garret and Pusey, manufacturers of cotton yarn | 38,000                                                           | 6,000                                                                     | 30,000                                    | Cotton yarn, 128,000 lbs. | Cotton                                                                      | 400 bales, worth \$14,000, 250 galls. oil, worth 212 dolls., sundries \$100 | 53                                      | \$7 50 per week | 2 00            | 1 37½              | -                 | 150 bbls. flour<br>Fuel<br>Meat,<br>Vegetables,<br>&c.                                                 | \$750<br>300<br>950                                           | \$2,000 |
| J. B. Hutchinson & Co.                         | 72,000                                                           | 4,800                                                                     | 45,500                                    | Cotton yarn               | Cotton                                                                      | 173,000 lbs.                                                                | 75                                      | \$6 12½ p. week | 2 21            | 1 47               | 2                 | When the manufactory was first established, it was worth \$40,000. In 1890 it was valued at \$200,000. | -                                                             | -       |
| E. J. Du Pont, manufacturer of gunpowder       | \$258,392                                                        | 89,339                                                                    | 194,682                                   | Gunpowder                 | Saltpetre 30 cts. per lb., nitrate 11 cts. per lb., charcoal 7 cts. per lb. | 400 tons                                                                    | 284                                     | -               | -               | -                  | -                 | -                                                                                                      | -                                                             | -       |
|                                                | 80,000                                                           | 100,000                                                                   | 153,000                                   |                           |                                                                             |                                                                             | 140                                     | -               | -               | -                  | -                 | -                                                                                                      | -                                                             | -       |

[illegible]

## DOCUMENT 15.—No. 31.

*Jacob Alrichs & Son, Machinists, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. State of Delaware, Newcastle                                                                  |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Machinery made for manufacturing cotton and wool, &c., by steam power.                        |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Established in 1808, by Alrichs & Son; now conducted by Jacob Alrichs & Son.                  |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                                                                                                                                                                                          | 4. In ground and buildings, \$4,000; machinery, \$4,000.                                         |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. \$10,000 annually.                                                                            |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. About 8 per cent. on that not borrowed; about 2 per cent. on that borrowed.                   |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. Encouragement or depression of cotton and woollen manufactures.                               |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Have no data to ascertain.                                                                    |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value, of each kind?                                                                                                                                                               | 9. About \$12,000 worth; \$10,000 cotton machinery, \$2,000 wool machinery and other articles.   |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. About 30 tons best American iron; about one ton common English iron.                         |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. None imported that we know of, within three or four years.                                   |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. About 20 men, at \$1 25 per day; and 5 boys, at 50 cents per day.                            |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                     | 13. 10½ hours a day, all the year.                                                               |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 14. About the same.                                                                              |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. None.                                                                                        |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                                                            | 16. At the establishment.                                                                        |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                            | 17. Not any imported known of, within last three or four years.                                  |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. In the neighborhood of one hundred sixty miles round.                                        |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                                                            | 19. Others, to the east, have made machinery for South America and Mexico; we have not made any. |
| 20. Whether the manufacture is sold by the manufacturer for cash? and, if on credit, at what credit? if bartered, for what?                                                                                                                                                                          | 20. Cash.                                                                                        |

## DOCUMENT 15.—No. 31—Continued.

| QUESTIONS.                                                                                                                                                                                                                            | ANSWERS.                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Whether the cost of the manufactured (to the manufacturer) has increased or decreased; and how much in each year the establishment of the manufactory; whether the increase has been in the material, or the labor, and at what rate? | 21. Increased in cost, in both labor and material, being made more perfect; price remaining about the same. |

JACOB ALRICHS &amp; SON.

## DOCUMENT 15.—No. 32.

*Manufactory of various kinds of Machinery, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                             | ANSWERS.                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| State and county in which the manufactory situated?                                                                                    | 1. Delaware, Newcastle.                                                                                                               |
| Kind or description of the manufactory; whether water, steam, or other power?                                                          | 2. Cotton and woollen machinery, steam engines, and railroad cars; steam power.                                                       |
| When established, and whether a joint concern?                                                                                         | 3. September, 1828. A company consisting of two persons.                                                                              |
| Capital invested in ground and building?                                                                                               | 4. Six thousand dollars.                                                                                                              |
| Average amount in materials, and in or for the purchase of materials and pay of wages?                                                 | 5. Three thousand five hundred dollars.                                                                                               |
| Cause of the increase, (or decrease, as we may be,) of profit?                                                                         | 7. The American system, as it now exists, is a cause of increase. If abandoned for a system of slavery, it would be a cause of ruin.  |
| Number of men, women, and children employed, and average wages of each?                                                                | 12. 16 men and 5 boys; \$1 12½ for men.                                                                                               |
| How many hours a day employed, and portion of the year?                                                                                | 13. 11 hours all the year.                                                                                                            |
| Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                  | 16. General market within 100 miles, but confined to no particular market.                                                            |
| Whether foreign articles of the like enter into competition with them at place of sale, and to what extent?                            | 17. Existing duties protect us from foreign competition.                                                                              |
| Whether any of the manufactures are exported to foreign countries? and if so, to what?                                                 | 19. Articles of similar manufacture have been exported to South America.                                                              |
| Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what rate? if bartered, for what?                   | 20. For cash when we have confidence in our Government; for credit when this confidence is disturbed by the threats of slave drivers. |
| What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported? | 23. The rate now existing.                                                                                                            |
| Is any change necessary in levying or altering the duty on such articles to prevent fraud?                                             | 24. Patriots for collectors, not office hunters.                                                                                      |



## DOCUMENT 15.—No. 32—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. All the profits have been retained in capital and contingency.            |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you manufacture at reduced prices?                                                                                | 29. We would abandon the business.                                            |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. Probably in learning the art of being as a Southern nabob.                |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                              | 31. We know of nothing, except selling drugs in the swamps of South Carolina. |

McCLARY &amp; EISEL

WILMINGTON, DELAWARE.

## DOCUMENT 15.—No. 33.

*Boot, Shoe, and Trunk Manufactory, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Delaware State, Newcastle county.                                            |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Boots, shoes, and trunks.                                                    |
| 3. When established; and whether a joint stock concern?                                                                               | 3. Established in 1829; private concern.                                        |
| 4. Capital invested in ground and buildings, and water power, and machinery?                                                          | 4. Ground and buildings, 4,500 dollars.                                         |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. 4,000 dollars.                                                               |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                               | 7. Decrease in consequence of less competition.                                 |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. About 2,000 dollars for boots; 1,500 dollars for shoes; 200 trunks annually. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?       | 10. 2,000 dollars' worth of raw material principally domestic.                  |

## DOCUMENT 15.—No. 33—Continued.

| QUESTIONS.                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                       | 12. 20 men, 5 women; men \$4 per week, women \$1 50 per week.                                                                                   |
| 2. How many hours a day employed; and portion of the year?                                                                                                                                                                                             | 13. About 12 hours per day the year round.                                                                                                      |
| 3. Whether the manufactures find a market at the manufactory? If not, how far they sent to a market?                                                                                                                                                   | 16. Principally sold at home; some sent to Philadelphia.                                                                                        |
| 4. Whether foreign articles of the like enter into competition with them at place of sale; and to what extent?                                                                                                                                         | 17. No foreign competition.                                                                                                                     |
| 5. Where are the manufactures consumed?                                                                                                                                                                                                                | 18. In the surrounding country.                                                                                                                 |
| 6. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                | 19. None exported.                                                                                                                              |
| 7. Whether the manufacture is sold by manufacturer for cash? and if on credit, what credit? if bartered, for what?                                                                                                                                     | 20. Cash, and credit of four months.                                                                                                            |
| 8. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from establishment of the manufactory; and whether the increase has been in the material or the labor, and at what rate?   | 21. Cost has increased the two last years 10 per cent.                                                                                          |
| 9. The prices at which the manufactures are sold by the manufacturer since establishment?                                                                                                                                                              | 22. Leather trunks 3 dollars per foot; hair trunks 87 cents per foot; boots from 3 to 6 dollars per pair; shoes from \$1 50 to \$2 50 per pair. |
| 10. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, what portion of the profits of capital?                                                                               | 26. Raw materials \$2,000; wages \$3,000. Made nothing.                                                                                         |
| 11. What amount of the agricultural products of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                          | 27. Consume sixty barrels of flour.                                                                                                             |
| 12. If the duty upon the foreign manufacture of the kind of goods which you make be reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, would you manufacture at reduced prices? | 29. A reduction of duty would cause us to abandon our business.                                                                                 |
| 13. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                         | 30. Engage in manufacturing tobacco.                                                                                                            |
| 14. Is there any pursuit in which you could engage, from which you could derive greater gain even after a reduction of the import duty to 12½ per cent.?                                                                                               | 31. Could do better by manufacturing tobacco.                                                                                                   |
| 15. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                                                           | 33. Amount of capital, \$3,000.                                                                                                                 |

## DOCUMENT 15.—No. 34.

*James L. Devon, Boot and Shoemaker, New Castle County, Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                     | ANSWERS.                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                      | 1. Delaware, New Castle county.                                                                                                      |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                                                                                                                                           | 2. Boots and shoes; hand.                                                                                                            |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                        | 3. In 1825; private.                                                                                                                 |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                                                                                                                                                    | 4. Ground and buildings, \$3,000.                                                                                                    |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                | 5. \$2,600 in all.                                                                                                                   |
| 12. Number of men, women, and children employed; and average wages of each class?                                                                                                                                                                              | 12. 10 men, 4 women; average wages of men \$6 per week, women \$1 62 per week.                                                       |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                               | 13. Twelve hours.                                                                                                                    |
| 16. Whether the manufactures find a market at the manufactory? if not, how far are they sent to a market?                                                                                                                                                      | 16. Market at the manufactory.                                                                                                       |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?                                                                                                                                      | 17. No foreign competition that I know of.                                                                                           |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                       | 18. In the State of Delaware.                                                                                                        |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                      | 19. None exported.                                                                                                                   |
| 20. Whether the manufacture is sold by the manufacturer for cash? if on credit, at what credit? if bartered, for what?                                                                                                                                         | 20. Principally for cash.                                                                                                            |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                           | 22. Men's boots from 4 to \$5; shoes from \$1 1/4 to \$2 1/4; ladies' boots from \$1 1/2 to \$2 1/2, shoes from 50 cents to \$1 3/4. |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12 1/2 per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you manufacture at reduced prices? | 29. I should be compelled to abandon my business.                                                                                    |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                 | 30. Cannot say.                                                                                                                      |

JAMES L. DEVON.

## DOCUMENT 15.—No. 35.

*J. S. Hedges, Rope-maker, Wilmington City, Delaware.*

| QUESTIONS.                                                                           | ANSWERS.                                   |
|--------------------------------------------------------------------------------------|--------------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Wilmington City, Delaware State.        |
| 2. Kind or description of the manufactory, and whether water, steam, or other power? | 2. Rope and twine manufactory; hand power. |

## DOCUMENT 15.—No. 35.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                  | 3. In 1830, private.                                                                                         |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                                                                                                                                                              | 4. \$3,000 in ground, buildings, and machinery.                                                              |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                          | 5. Wages \$250 per an.; cash for the purchase of materials \$1,000; average amount in materials about \$500. |
| 7. Cause of the increase (or decrease, as the case may be,) of profit?                                                                                                                                                                                                   | 7. Decrease of profit, owing to the imposition of articles such as I manufacture.                            |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                          | 10. About 4 tons of American hemp, $\frac{1}{2}$ ton of Russia do., and 5 cwt. of flax.                      |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                        | 12. Three men and two boys; average wages of men \$5 per week, boys \$1 50.                                  |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                         | 13. Twelve hours all the year.                                                                               |
| 15. Number of horses, or other animals employed?                                                                                                                                                                                                                         | 15. Two horses.                                                                                              |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                                | 16. Manufactures find a market at the factory.                                                               |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale; and to what extent?                                                                                                                                                | 17. Foreign articles do enter into competition with such articles as I manufacture.                          |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                 | 18. In the United States.                                                                                    |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                 | 19. None exported.                                                                                           |
| 20. Whether the manufacture is sold by the manufacturer for cash? if on credit, at what credit? if bartered, for what?                                                                                                                                                   | 20. About one-third cash, and two-thirds credit of from six to twelve months.                                |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12 $\frac{1}{2}$ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you manufacture at reduced prices? | 29. It would cause me to abandon my business.                                                                |

JOSEPH S. HEDGES.

## DOCUMENT 15.—No. 36.

*Manufactory of Chocolate, &c., Newcastle County, Delaware.*

| QUESTIONS.                                                                           | ANSWERS.                                                                      |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Newcastle county, State of Delaware.                                       |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. Chocolate, mustard, ginger, and spices generally; the power used is water. |
| 3. When established; and whether a joint stock concern?                              | 3. Been established about twenty-five years; a partnership concern.           |

## DOCUMENT 15.—No. 36—Continued.

| QUESTIONS.                                                                                                                      | ANSWERS.                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4. Capital invested in ground and buildings, and water power and machinery?                                                     | 4. About twelve thousand dollars.                                                                                                                         |
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products? | 10. Cocoa 100,000 pounds, nutmeg and 800 bushels, rice ginger 200,000 pounds, black pepper 50,000 pounds, cassia 5,000 pounds, other spices 1,000 pounds. |
| 12. Number of men, women, and children, employed, and average wages of each class?                                              | 12. Three men, two girls, and one girl.                                                                                                                   |
| 13. How many hours a day employed, and what portion of the year?                                                                | 13. Work by the hundred weight.                                                                                                                           |
| 15. Number of horses or other animals employed?                                                                                 | 15. Two horses.                                                                                                                                           |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                       | 16. They do not find a market at the manufactory, but are sent to most of the ports of the United States.                                                 |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?       | 17. Foreign articles do not enter into competition with them.                                                                                             |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                       | 19. Our manufactures are not sent to foreign countries.                                                                                                   |
| 20. Whether the manufacture is sold by the manufacturer for cash? if on credit, at what credit? if bartered, for what?          | 20. Generally sold at a credit of 4 months.                                                                                                               |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                | 24. No.                                                                                                                                                   |

C. J. FELL &amp; BROTHERS.

## DOCUMENT 15.—No. 37.

*Coach Manufactory, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Delaware State, Newcastle county.                                                                |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                  | 2. Coach manufactory; hand.                                                                         |
| 3. When established; and whether a joint stock concern?                                                                               | 3. In 1824; private.                                                                                |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                           | 4. One thousand seven hundred dollars.                                                              |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. Average amount of materials, \$1,000; cash for the purchase of materials, \$1,000; wages, \$600. |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. Five thousand dollars per annum.                                                                 |
| 12. Number of men, women, and children employed, and average wages of each class?                                                     | 12. Three men and three boys; men wages \$6 per week for men, boys \$4 per week.                    |

## DOCUMENT 15.—No. 37—Continued.

| QUESTIONS.                                                                                                                                                                                                                                    | ANSWERS.                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| How many hours a day employed; and portion of the year?                                                                                                                                                                                       | 13. Twelve hours.                                                                              |
| Whether the manufactures find a market the manufactory? If not, how far are sent to a market?                                                                                                                                                 | 16. Market at the manufactory.                                                                 |
| Whether foreign articles of the like enter into competition with them at such of sale, and to what extent?                                                                                                                                    | 17. Very little competition.                                                                   |
| Where are the manufactures consumed?                                                                                                                                                                                                          | 18. In the United States.                                                                      |
| Whether any of the manufactures are sent to foreign countries? and, if so, to what extent?                                                                                                                                                    | 19. None.                                                                                      |
| Whether the manufacture is sold by manufacturer for cash? if on credit, at credit? if bartered, for what?                                                                                                                                     | 20. Cash, credit, and barter, but cannot tell to what amount.                                  |
| Whether the cost of the manufactured (to the manufacturer) has increased or decreased; and how much in each year, the establishment of the manufactory; whether the increase has been in the material or the labor, and at what rate?         | 21. Cost decreased in the material, at the rate of 10 per cent. on an average.                 |
| The prices at which the manufactures have been sold by the manufacturer since establishment?                                                                                                                                                  | 22. Close carriages \$500, gigs (average) \$250, dearborns 100 to \$300.                       |
| If the duty upon the foreign manufacture of the kind of goods which you make reduced to 12½ per cent., with a corresponding reduction on all the imports, would you be induced to abandon your business, or to manufacture at reduced prices? | 29. The foreign article imported is so inferior to the American, that there is no competition. |
| Amount of capital; and what proportion the borrowed capital bears to that which is your own?                                                                                                                                                  | 33. One thousand five hundred dollars.                                                         |

EDWARD KENNARD.

## DOCUMENT 15.—No. 38.

*John Fiske's Paper Mill, New Castle County, Delaware.*

| QUESTIONS.                                                                          | ANSWERS.                             |
|-------------------------------------------------------------------------------------|--------------------------------------|
| State and county in which the manufactory is situated?                              | 1. Delaware, New Castle county.      |
| Kind or description of the manufactory; whether water, steam, or other power?       | 2. Paper; water power.               |
| When established; and whether a joint concern?                                      | 3. In 1830.                          |
| Capital invested in ground and building and water power and machinery?              | 4. Five thousand dollars.            |
| Average amount in materials, and in the purchase of materials and payment of wages? | 5. Two thousand six hundred dollars. |

## DOCUMENT 15.—No. 38—Continued.

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. 1,500 reams brown paper, at 60 cts per ream; 500 reams medium, at \$1.50 per ream. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?       | 10. 25,000 weight of coarse rags; 13,000 do fine do                                   |
| 12. Number of men, women, and children employed, and average wages of each class?                                                     | 12. Four men, one boy; wages \$4 per week.                                            |
| 13. How many hours a day employed; and what portion of the year?                                                                      | 13. Work by the ream.                                                                 |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                             | 16. Philadelphia 43 miles, and Baltimore.                                             |
| 18. Where are the manufactures consumed?                                                                                              | 18. In the United States.                                                             |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                             | 19. None.                                                                             |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 20. For cash, and barter for rags.                                                    |

JOHN FAIR

HEAD BRANCH OF CHRISTIANA.

## DOCUMENT 15.—No. 39.

*James Watson's Saddlery, &c., New Castle County, Delaware.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Delaware State, New Castle county.                               |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Saddle, harness, and trunk.                                      |
| 3. When established; and whether a joint stock concern?                                                                               | 3. In 1819. Private.                                                |
| 4. Capital invested in ground and buildings?                                                                                          | 4. One thousand six hundred dollars.                                |
| 5. Average amount in materials, in cash for the purchase of materials and payment of wages?                                           | 5. Between \$6,000 and \$7,000 the year.                            |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                               | 7. Decrease of profits owing to an increase of materials.           |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. 750 dozen bridles; 50 saddles, \$1.50 harness; 300 trunks.       |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?       | 10. \$4,000 domestic, and \$1,000 foreign.                          |
| 12. Number of men, women, and children employed, and average wages of each class?                                                     | 12. Seven men, three women; men \$15 per month, women \$3 per week. |

DOCUMENT 15.—No. 39—Continued.

| QUESTIONS.                                                                                                                                                                                                                                            | ANSWERS.                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| How many hours a day employed, and portion of the year?                                                                                                                                                                                               | 13. Thirteen hours a day.                                                                                                                                                                    |
| Whether the manufactures find a market for the manufacture? If not, how far are sent to a market?                                                                                                                                                     | 16. The principal part sent to Philadelphia, a distance of 30 miles.                                                                                                                         |
| Whether foreign articles of the like enter into competition with them at place of sale; and to what extent?                                                                                                                                           | 17. Very little foreign competition.                                                                                                                                                         |
| Where are the manufactures consumed?                                                                                                                                                                                                                  | 18. In the United States.                                                                                                                                                                    |
| Whether any of the manufactures are sent to foreign countries? and if so, to what?                                                                                                                                                                    | 19. None exported.                                                                                                                                                                           |
| Whether the manufacture is sold by manufacturer for cash? and if on credit, at credit? if bartered, for what?                                                                                                                                         | 20. Cash.                                                                                                                                                                                    |
| Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from establishment of the manufacture; and whether the increase has been in the material or labor, and at what rate?         | 21. The cost of the manufactured article has decreased for the last seven years two per cent. in the labor.                                                                                  |
| The prices at which the manufactures have been sold by the manufacturer since establishment?                                                                                                                                                          | 22. Saddles from five to \$20 each; bridles from 8 to \$20 per dozen; harness, carriage, 20 to \$60 per double set; harness, draft, 8 to \$12 per single set; trunks from 3 50 to \$12 each. |
| What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                | 23. Present duty is sufficient, and nothing less.                                                                                                                                            |
| If the duty upon the foreign manufacture of the kind of goods which you make is reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you manufacture at reduced prices? | 29. Should be compelled to abandon my business.                                                                                                                                              |
| If it would cause you to abandon your business, in what way would you employ capital?                                                                                                                                                                 | 30. Give it all to support an administration that would support manufactures.                                                                                                                |
| Amount of capital; and what proportion the borrowed capital bears to that which is paid?                                                                                                                                                              | 33. \$1,000; none borrowed.                                                                                                                                                                  |
| What amount of reduction in the duty would enable the actual or real capital employed to yield an interest of 6 per cent.; how gradual the reduction should be?                                                                                       | 34. A reduction of the present rate of duty would cause annihilation of business.                                                                                                            |

JAMES WATSON.



## DOCUMENT 15,—No. 40.

*Wm. Countess, Saddler, Wilmington, Newcasle County, State of Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                | ANSWERS.                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                 | 1. Delaware State, and county of Newcastle.                                                                                                                               |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                      | 2. Saddlery and harness; hand power.                                                                                                                                      |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                   | 3. Established in 1837; private concern.                                                                                                                                  |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                                                                                                                                               | 4. Ground and buildings \$2,000.                                                                                                                                          |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                           | 5. Average amount in materials about thousand dollars; cash for the purchase of materials about one thousand dollars; journeymen's wages \$500 per annum.                 |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                   | 7. Increase of business owing to accumulation of capital.                                                                                                                 |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                     | 9. Having kept no account, cannot say.                                                                                                                                    |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                           | 10. About \$2,500 worth of raw materials used, of which about \$50 is of foreign manufacture.                                                                             |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                         | 12. 2 men and 1 woman; men \$7 per week, woman, \$1 50.                                                                                                                   |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                          | 13. Work by the piece, all the year.                                                                                                                                      |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                 | 16. Market at the manufactory.                                                                                                                                            |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale; and to what extent?                                                                                                                                 | 17. No competition from foreign articles; the duty saves me.                                                                                                              |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                  | 18. In the county around.                                                                                                                                                 |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                 | 19. None exported.                                                                                                                                                        |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                | 20. Sales cash.                                                                                                                                                           |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the material or the labor, and at what rate? | 21. Cost of the manufactured article has decreased in consequence of competition among manufacturers.                                                                     |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                      | 22. Saddles from \$7 to \$17 each, with from 75 cents to \$5; harness, wagon from \$15 to \$25 per set, (one horse,) \$10 or \$12, do., (for 1 horse,) from \$12 to \$14. |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                | 23. Duty, as far as I know, is sufficient.                                                                                                                                |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted                                   | 25. Having kept no particular account, cannot say.                                                                                                                        |

## DOCUMENT 15.—No. 40—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ANSWERS.                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| <p>fixed capital, or retained as a fund for<br/>ngent or other objects, and therefore<br/>divided out annually?</p> <p>What amount of the agricultural pro-<br/>s of the country is consumed in your es-<br/>shment, and what amount of other do-<br/>ic productions?</p> <p>If the duty upon the foreign manufac-<br/>of the kind of goods which you make<br/>reduced to 12½ per cent., with a cor-<br/>onding reduction on all the imports,<br/>ld it cause you to abandon your business,<br/>ould you manufacture at reduced prices?</p> | <p>27. Boarder.</p> <p>29. I should abandon my business.</p> |

WM. CONTISS.

## DOCUMENT 15.—No. 41.

*Stephen Boddy's Saddle, Harness, and Trunk Manufactory, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>State and county in which the manufac-<br/>is situated?</p> <p>Kind or description of the manufactory;<br/>whether water, steam, or other power?</p> <p>When established; and whether a joint<br/>k concern?</p> <p>Capital invested in ground and build-<br/>and water power and machinery?</p> <p>Average amount in materials, and in<br/>for the purchase of materials and pay-<br/>of wages?</p> <p>Cause of the increase, (or decrease, as<br/>case may be,) of profit?</p> <p>Amount of articles annually manufac-<br/>since the establishment of the manu-<br/>ory? Description, quality, and value of<br/>a kind?</p> <p>Quantity and value of different kinds<br/>aw materials used; distinguishing between<br/>ign products and domestic products?</p> <p>2. Number of men, women, and children<br/>mployed, and average wages of each class?</p> <p>3. How many hours a day employed, and<br/>at portion of the year?</p> <p>6. Whether the manufactures find a mar-<br/>at the manufactory? If not, how far are<br/>y sent to a market?</p> <p>7. Whether foreign articles of the like<br/>d enter into competition with them at<br/>h place of sale, and to what extent?</p> | <p>1. State of Delaware, Newcastle county.</p> <p>2. Saddle, harness, and trunk manufacto-<br/>ry; hand power.</p> <p>3. In 1827; private concern.</p> <p>4. Three thousand five hundred dollars.</p> <p>5. One hundred dollars, altogether.</p> <p>7. Profit decreased, owing to home com-<br/>petition.</p> <p>9. About \$1000 per annum, of various<br/>kinds and qualities.</p> <p>10. Value of raw materials used, \$12,000,<br/>mostly domestic.</p> <p>12. Two men, average from 5 to 6 dollars<br/>per week.</p> <p>13. Twelve hours all the year.</p> <p>16. Market at the manufactory.</p> <p>17. No foreign competition.</p> |

## DOCUMENT 15.—No. 41.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                  | ANSWERS.                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                    | 18. In the country around.                                                                                                                             |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                    | 19. None exported.                                                                                                                                     |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                  | 20. Cash.                                                                                                                                              |
| 21. Whether the cost of the manufactured article (to the manufacturer,) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the material or the labor; and at what rate? | 21. Cost increased twelve per cent in the material.                                                                                                    |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                        | 22. Saddles from 9 to \$18; trunks \$1 per foot; carriage harness from 15 to \$20 a set (one horse); draught harness from 6 to \$20 a set (two horse.) |

STEPHEN BROWN

## DOCUMENT 15.—No. 42.

*John Perkins, Saddler, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Delaware, Newcastle county.                                                                                             |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Saddles, harness, and bridle; by hand.                                                                                           |
| 3. When established; and whether a joint stock concern?                                                                               | 3. In 1831; private.                                                                                                                |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                           | 4. None.                                                                                                                            |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                               | 7. The reduced price of hardware; increase, the high price paid for leather.                                                        |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. Saddles from 80 to 100, price from \$10 to \$16; sets of harness from 50 to 60, price \$5 a \$30.                                |
| 12. Number of men, women, and children employed, and average wages of each class?                                                     | 12. Hands, 5; from \$8 to \$15 per month.                                                                                           |
| 13. How many hours a day employed, and what portion of the year?                                                                      | 13. From the 10th March till 10th October, from sunrise till setting; from 10th October till 10th March, from sunrise till 11 A. M. |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to market?                               | 16. Ready sale for articles at home.                                                                                                |
| 18. Where are the manufactures consumed?                                                                                              | 18. At home.                                                                                                                        |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                              | ANSWERS.                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                                                                | 19. No exports.                                                                       |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                              | 20. Some disposed of in each way; barter for the products of the surrounding country. |
| 25. What has been the rate of your profits, annually, for the last three years? and if be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Rate of profits from 12½ to 25 per cent.                                          |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would cause you to abandon your business, or could you manufacture at reduced prices?                                                                                | 29. By necessity, at reduced prices.                                                  |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                           | 31. Equivocal.                                                                        |
| 33. Amount of capital, and what proportion the borrowed capital bears to that which real?                                                                                                                                                                                                                                               | 33. Capital, supposition, \$400; borrowed none.                                       |
| 40. Average rate of wages?                                                                                                                                                                                                                                                                                                              | 40. From \$8 to \$15 per month.                                                       |

JOHN PERKINS.

## Tabular Statement, including Papermaker, Machine

| Names of manufacturers and mechanics, and date of establishment.      | Capital invested in ground, buildings, water power, and machinery. | Average amount in materials, cash for the purchase of materials and payment of wages. | Amount of articles annually manufactured. | Kinds.                                                                              | Quantity of materials per annum.                                                                                                            |
|-----------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Jacob Alrich and Son, machinists; 1808.                               | \$7,500                                                            | \$10,000                                                                              | \$12,000                                  | Cotton machinery, wool do. and other articles.                                      | 30 tons best American iron; 1 ton cast English iron.                                                                                        |
| McClary & Bush, makers of various kinds of machinery; 1838.           | 6,000                                                              | 3,500                                                                                 | -                                         | Cotton and wool-len machinery, steam engines and railroad cars; steam power.        | -                                                                                                                                           |
| William Magens, boot, shoe, and trunk maker; 1829; private concern.   | 4,500                                                              | 4,000                                                                                 | 14,600                                    | Boots, shoes, and trunks.                                                           | Principally domestic, worth \$200.                                                                                                          |
| James L. Devon, boot and shoemaker; 1825; private concern.            | 3,000                                                              | 2,600                                                                                 | -                                         | Boots and shoes                                                                     | -                                                                                                                                           |
| J. S. Hedges, ropemaker; 1830; private concern.                       | 3,000                                                              | 1,750                                                                                 | -                                         | -                                                                                   | 4 tons Amer. hemp<br>½ ton Russia hemp<br>5 cwt. flax                                                                                       |
| C. J. Fell and Brothers, manufacturers of chocolate and spices; 1806. | 12,000                                                             | -                                                                                     | No estimate                               | Chocolate and various spices                                                        | 100,000 lbs cocoa<br>800 bushels mustard<br>200,000 lbs rice paper<br>50,000 lbs black pepper<br>5,000 lbs cassia<br>1,000 lbs other spices |
| Edwd. Kennard, coachmaker; 1824; private concern.                     | 1,700                                                              | 5,100                                                                                 | 5,000                                     | -                                                                                   | -                                                                                                                                           |
| John Fales; papermaker; 1830; private concern.                        | 5,000                                                              | 2,600                                                                                 | 1,650                                     | 1500 reams brown paper, worth 60 cents, \$900; 500 reams medium, at \$1 50, \$7 50. | 2,500 cwt coarse paper<br>1,300 do fine do                                                                                                  |

No. 43.

*various Mechanics, in Newcastle County, Delaware.*

| Places at which the manuf-<br>tures have been sold<br>since the establishment<br>of the manufactory.    | Number of<br>men, women,<br>and children<br>employed. | Wages of men, women,<br>and children.             | Number of horses. | Amount of agricul-<br>tural products<br>and other domestic<br>productions. |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------|-------------------|----------------------------------------------------------------------------|
| - - -                                                                                                   | 20 men and 5<br>boys                                  | Men \$1 25 per day; chil-<br>dren 50 cts. per day |                   |                                                                            |
| - - -                                                                                                   | 16 men and 5<br>boys                                  | Men \$1 12½ per day                               |                   |                                                                            |
| Is from 3 to \$6 per pair<br>Is from 1 50 to \$2 50<br>Other trunks \$3 per foot<br>trunks 87½ cts. do. | 20 men and 5<br>women                                 | Men \$4 per week; wo-<br>men \$1 50 per week      |                   | 60 bbls. flour annu-<br>ally, worth \$350.                                 |
| Is from 4 to \$6, men's<br>Is 1½ to 2½, do<br>Is from 1½ to 2½, women's<br>Is .50 to \$1 37½ do         | 10 men and 4<br>women                                 | Men \$6 per week; wo-<br>men \$1 68½ per week     |                   |                                                                            |
| - - -                                                                                                   | 3 men and 2<br>boys                                   | Men \$5 per week; wo-<br>men \$1 30 per week      | 2                 |                                                                            |
| - - -                                                                                                   | 3 men, 2 girls,<br>1 boy                              | Unanswered                                        | 2                 |                                                                            |
| - - -                                                                                                   | 3 men, 3 boys                                         | Men \$6 per week; chil-<br>dren \$1 50 per week   |                   |                                                                            |
| - - -                                                                                                   | 4 men, 1 boy                                          | Men \$4 per week; chil-<br>dren not said          |                   |                                                                            |

December 15—1.

| Names of manufacturers and mechanics, and date of establishment.         | Capital invested in ground, buildings, water power, and machinery. | Average amount in materials, cash for the purchase of materials and payment of wages. | Amount of articles annually manufactured.                                                 | Kinds.                                 | Quantity of raw materials per annum.       |
|--------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------|
| James Watson, saddler and trunkmaker; 1819; private concern.             | \$1,600                                                            | \$6,500                                                                               | No estimate.                                                                              | Saddles, bridles, harness, and trunks. | Domestic worth \$200<br>Foreign worth \$20 |
| Wm. Countiss, saddler and harness maker; 1829; private concern.          | 2,000                                                              | 2,500                                                                                 | No estimate.                                                                              | Saddles, harness, and bridles.         | Domestic worth \$200<br>Foreign worth \$20 |
| Stephen Boddy, saddler, harness, and trunk maker; 1827; private concern. | 3,500                                                              | 100                                                                                   | \$1,000                                                                                   | Saddles, bridles, trunks, and harness. | Domestic worth \$200<br>Foreign worth \$20 |
| John Perkins, saddler, &c. 1831; private concern.                        | -                                                                  | -                                                                                     | From 80 to 100 saddles, at from 7 to \$16; from 50 to 60 sets harness, at from 5 to \$30. |                                        |                                            |
| Aggregate                                                                | \$49,800                                                           | \$38,650                                                                              | \$36,250                                                                                  |                                        |                                            |

Continued.

| s at which the manu-<br>tures have been sold<br>ce the establishment<br>the manufacture.                                                                                                 | Number of<br>men, women,<br>and children<br>employed. | Wages of men, women,<br>and children.        | Number of horses. | Amount of agricul-<br>tural products<br>and other domestic<br>productions. |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------|-------------------|----------------------------------------------------------------------------|
| les from 5 to 20 dollars<br>ch<br>les from 8 to 20 dollars<br>r dozen<br>eam, carriage, 20 to 60<br>llars per double set<br>ight, 8 to 12 dollars per<br>gle set<br>lks, \$3 50 to \$12. | 7 men, 3 wo-<br>men                                   | Men \$18 pr month; wo-<br>men \$3 pr week    |                   |                                                                            |
| les from 7 to 17 dolla.<br>les 75 cents to 5 dolla.<br>ess, wagon, 15 to \$26<br>set, (1 horse)<br>iage do. for 1 horse, 12<br>50 dollars                                                | 2 men, 1 wo-<br>man                                   | Men \$7 per week; wo-<br>men \$1 50 per week |                   |                                                                            |
| les from 9 to 18 dolla.<br>lks, hair, pr foot, 1 doll.<br>iage harness, 12 to \$30<br>ness for wagons, carts,<br>c. 6 to \$20 set (1 horse)                                              | 3 men                                                 | Men average \$5 50                           |                   |                                                                            |
|                                                                                                                                                                                          | 122                                                   |                                              | 4                 |                                                                            |



## DOCUMENT 15.—No. 44.

*Wm. R. Sellers' Hat Manufactory, Newcastle County, State of Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                  | ANSWERS.                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                   | 1. State of Delaware, Newcastle county.                                         |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                        | 2. Hatting.                                                                     |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                     | 3. 1925; individual.                                                            |
| 4. Capital invested in ground and buildings, and water power, and machinery?                                                                                                                                                                                | 4. \$7,000.                                                                     |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                             | 5. About \$3,000.                                                               |
| 7. Cause of the increase (or decrease, as the case may be,) of profit?                                                                                                                                                                                      | 7. Fluctuation in the price of hats and trimmings.                              |
| 8. Rates of profit on capital otherwise employed 'in the same State and county?                                                                                                                                                                             | 8. 10 per cent.                                                                 |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                       | 9. \$1,200.                                                                     |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                             | 10. \$1,000 domestic; \$2,000 foreign.                                          |
| 12. Number of men, women, and children employed; and average wages of each class?                                                                                                                                                                           | 12. 4 men; 1 woman.                                                             |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                            | 13. 10 hours.                                                                   |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                   | 16. At the manufactory.                                                         |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                  | 17. No foreign competition on account of a judicious protection by our country. |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                    | 18. In Pennsylvania, Jersey, Maryland and Delaware.                             |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                   | 19. None.                                                                       |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                  | 20. Cash, and 6 months.                                                         |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                        | 22. From \$2 to \$10.                                                           |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                  | 23. The present rate.                                                           |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                            | 24. None.                                                                       |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you manufacture at reduced prices? | 29. I would abandon the business the day after the fatal reduction.             |

## DOCUMENT 15.—No. 44—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                        | ANSWERS.                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>. If it would cause you to abandon your business, in what way would you employ capital?</p> <p>. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?</p> | <p>30. In travelling out of the country, that I might not witness her sad reverse.</p> <p>31. I am unacquainted with any other business, consequently cannot tell; but I feel assured that, in one year after the proposed reduction, there would not be a hat manufactory in the Atlantic or middle States.</p> |

W. R. SELLARS.

## DOCUMENT 15.—No. 45.

*Peter Springer, Hatter, Wilmington, New Castle County, Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>State and county in which the manufactory is situated?</p> <p>Kind or description of the manufactory; whether water, steam, or other power? When established, and whether a joint concern?</p> <p>Capital invested in ground and build- and water power and machinery?</p> <p>Average amount in materials, and in for the purchase of materials and pay- of wages?</p> <p>Cause of the increase (or decrease, as use may be,) of profit?</p> <p>Amount of articles annually manufac- since the establishment of the manu- y? Description, quality, and value of kind?</p> <p>Quantity and value of different kinds of materials used; distinguishing between foreign products and domestic products?</p> <p>Number of men, women, and chil- employed, and average wages of each?</p> <p>How many hours a day employed; and portion of the year?</p> <p>Whether the manufactory finds a market for the manufactory? If not, how far are sent to a market?</p> <p>Whether foreign articles of the like enter into competition with them at place of sale, and to what extent?</p> <p>Where are the manufactorys consumed? Whether any of the manufactorys are sent to foreign countries? and, if so, to what place?</p> | <p>1. Delaware State, and New Castle county.</p> <p>2. Hat manufactory; hand power.</p> <p>3. Established in 1831; private concern.</p> <p>4. Capital about 1,700 dollars.</p> <p>5. About \$ 1,500 per annum.</p> <p>6. None.</p> <p>7. Rather a decrease in trade, owing to competition among manufactorys.</p> <p>8. Manufactured near 1,000 hats; one-fourth castor; one-fourth second quality castors; one-fourth forams; and one-fourth youths and men's hats of lowest quality.</p> <p>9. About one-half of the raw materials used are imported, but the prices (owing to the articles having been purchased in small parcels at various times) cannot be come at readily.</p> <p>10. Three men and one woman; the men \$7 per week; the woman \$ 3 per week.</p> <p>11. None.</p> <p>12. Work by the piece.</p> <p>13. Market at home.</p> <p>14. No foreign competition here.</p> <p>15. In the surrounding country.</p> <p>16. None.</p> |

## DOCUMENT 15.—No. 45—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                 | 20. Cash principally.                                                                                                                  |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased, and how much in each year, from the establishment of the manufactory; and whether the increase has been in the material or the labor, and at what rate? | 21. Increase on the material, $\frac{1}{2}$ per cent.; labor, no increase.                                                             |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                       | 22. Beaver hats \$9; castor best \$11.50 do. from 7 to \$5; racams from \$4 to \$11. men's and youths' more inferior, from \$1 to \$3. |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                 | 23. Duty sufficient existing.                                                                                                          |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                           | 24. In my opinion none.                                                                                                                |
| 27. What amount of the agricultural products of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                              | 27. Do not know.                                                                                                                       |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent. with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you manufacture at reduced prices? | 29. If the duties were reduced to 12½ per cent. as stated, it would be ruinous to our business.                                        |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                             | 30. I know of no other business at which I could employ my small capital in a way that would give support to my family.                |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                              | 31. I know of none now.                                                                                                                |

WILMINGTON, DELAWARE.

PETER SPRINGER, Hatter.

## DOCUMENT 15.—No. 46.

*Lewis Rumford, Hatter, New Castle County, Delaware.*

| QUESTIONS.                                                                           | ANSWERS.                              |
|--------------------------------------------------------------------------------------|---------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Delaware State, New Castle county. |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. Hatting; hand power.               |
| 3. When established, and whether a joint stock concern?                              | 3. In 1820. Private.                  |
| 4. Capital invested in ground and buildings, and water power and machinery?          | 4. \$3,300 ground and buildings.      |

## DOCUMENT 15.—No. 46—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                  | ANSWERS.                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| verage amount in materials, and in cash purchase of materials and payment of                                                                                                                                                                                                | 5. About \$3,000 the whole.                                           |
| nnual rate of profit on the capital in-<br>since the establishment of the manu-<br>; distinguishing between the rate of<br>upon that portion of the capital which<br>owed, after providing for the interest<br>; and the rate of profit upon that<br>which is not borrowed? | 6. As much as we can; but that is little<br>enough in all conscience. |
| Amount of articles annually manufac-<br>since the establishment of the manufac-<br>Description, quality, and value of each                                                                                                                                                  | 9. 1,200 annually.                                                    |
| Quantity and value of different kinds<br>r materials used; distinguishing be-<br>foreign products and domestic pro-                                                                                                                                                         | 10. Foreign \$ 600; domestic \$ 1,400.                                |
| Number of men, women and children<br>yed, and average wages of each class?                                                                                                                                                                                                  | 12. Four men; one woman.                                              |
| How many hours a day employed, and<br>portion of the year?                                                                                                                                                                                                                  | 13. Ten hours a day all the year.                                     |
| Whether the manufactures find a mar-<br>the manufactory? If not, how far are<br>sent to a market?                                                                                                                                                                           | 16. Market at the manufactory.                                        |
| Whether foreign articles of the like<br>enter into competition with them at<br>place of sale, and to what extent?                                                                                                                                                           | 17. No foreign competition.                                           |
| Where are the manufactures consumed?                                                                                                                                                                                                                                        | 18. In the country around.                                            |
| Whether any of the manufactures are<br>red to foreign countries? and if so,<br>e?                                                                                                                                                                                           | 19. None.                                                             |
| Whether the manufacture is sold by<br>manufactory for cash? and if on credit,<br>at credit? if bartered, for what?                                                                                                                                                          | 20. Cash and a credit of six months.                                  |
| If the duty upon the foreign manufac-<br>of the kind of goods which you make<br>reduced to 12½ per cent., with a corres-<br>ding reduction on all the imports, would<br>se you to abandon your business, or<br>d you manufacture at reduced prices?                         | 29. It would cause me to abandon my bu-<br>siness.                    |

LEWIS RUMFORD.

## DOCUMENT 15.—No. 47.

*Enoch Roberts, Manufacturer of Candles and Soap, Newcastle County, Delaware.*

| QUESTIONS.                                                                       | ANSWERS.                                |
|----------------------------------------------------------------------------------|-----------------------------------------|
| State and county in which the manufac-<br>is situated?                           | 1. State of Delaware, Newcastle county. |
| Kind or description of the manufactory;<br>whether water, steam, or other power? | 2. Soap and candles; hand power.        |

## DOCUMENT 15.—No. 47.—Continued.

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| 3. When established; and whether a joint stock concern?                                                                               | 3. In 1826; private concern.                                              |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                           | 4. 4,000 dollars, ground, building, and machinery.                        |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. \$13,000.                                                              |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. About 100,000 lbs. soap; 100,000 lb. candles.                          |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?       | 10. Domestic.                                                             |
| 12. Number of men, women, and children employed, and average wages of each class?                                                     | 12. Six men; average wages \$3 <sup>40</sup> / <sub>100</sub> per month.  |
| 13. How many hours a day employed, and what portion of the year?                                                                      | 13. 12 hours a day, all the year.                                         |
| 15. Number of horses or other animals employed?                                                                                       | 15. Six horses.                                                           |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                             | 16. A part at home, and a part exceeding 60 miles.                        |
| 18. Where are the manufactures consumed?                                                                                              | 18. Delaware, Pennsylvania, and Maryland.                                 |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                             | 19. None.                                                                 |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                  | 22. Soap, from 4½ to 8 cents per lb.; candles, from 8 to 12 cents per lb. |

ENOCH ROBERTS.

## DOCUMENT 15.—No. 48.

*Soap and Candle Manufactory, Newcastle County, Delaware.*

| QUESTIONS.                                                                                      | ANSWERS.                             |
|-------------------------------------------------------------------------------------------------|--------------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Delaware State, Newcastle county. |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?            | 2. Soap and candles, hand power.     |
| 3. When established, and whether a joint stock concern?                                         | 3. In 1822; private.                 |
| 4. Capital invested in ground and buildings?                                                    | 4. About \$6,500.                    |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 5. \$11,450 the whole.               |

## DOCUMENT 15.—No. 49—Continued.

| QUESTIONS.                                                                                                                     | ANSWERS.                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of kind?  | 9. About 100,000 lbs. candles, average 10 cents per lb.; 150,000 lbs. soap, average 7 cents per lb. |
| 1. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products? | 10. 150,000 lbs. rough fat, 80,000 lbs. tallow; \$1,200 barilla.                                    |
| 2. Number of men, women, and children employed, and average wages of each class?                                               | 12. 5 men, average wages \$4 65 per week.                                                           |
| 3. How many hours a day employed, and what portion of the year?                                                                | 13. 12 hours.                                                                                       |
| 4. Number of horses or other animals employed?                                                                                 | 15. 6 horses.                                                                                       |
| 5. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                       | 16. Market in the States of Delaware and Maryland.                                                  |
| 6. Whether foreign articles of the like kind enter into competition with them at such a price of sale; and to what extent?     | 17. No foreign competition.                                                                         |
| 7. Where are the manufactures consumed?                                                                                        | 18. In the United States.                                                                           |
| 8. Whether any of the manufactures are exported to foreign countries? and if so, where?                                        | 19. None.                                                                                           |
| 9. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?      | 20. One-half cash, and one-half credit.                                                             |
| 10. The prices at which the manufactures have been sold by the manufacturer since the establishment?                           | 22. Soap 7 cents per lb. the average; candles 10 cents.                                             |

BAINTON &amp; BANCROFT.

## DOCUMENT 15.—No. 49.

*Iron Foundry, Wilmington, Newcastle County, Delaware.*

| QUESTIONS.                                                                                      | ANSWERS.                                                                                                                          |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Wilmington, Newcastle county, Delaware; Mahlon Betts proprietor.                                                               |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?            | 2. Iron foundry; use a steam engine of three horse power.                                                                         |
| 3. When established, and whether a joint stock concern?                                         | 3. A private concern; has been in the hands of the present proprietor since 1822; originally established about 1812 or '13.       |
| 4. Capital invested in ground and buildings, steam power, and machinery?                        | 4. 7,850 dollars.                                                                                                                 |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 5. 8,000 dollars.                                                                                                                 |
| 6. Cause of the increase (or decrease, as the case may be,) of profit?                          | 7. A considerable increase, occasioned by the general prosperity of the manufacturing establishments located in the neighborhood. |

## DOCUMENT 15.—No. 49—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                            | 10. Consume about 10,000 bushels coal at 20 cts. per bushel, and 250 tons of iron; about one-third of the latter imported from England; average price about \$35 per ton. |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                          | 12. 18 men employed.                                                                                                                                                      |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                           | 13. 10 hours per day.                                                                                                                                                     |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                  | 16. Work made to order.                                                                                                                                                   |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale; and to what extent?                                                                                                                                  | 17. Very little competition, except in road work.                                                                                                                         |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                   | 18. In the neighborhood.                                                                                                                                                  |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                 | 20. Nearly all sold at a credit of from to twelve months.                                                                                                                 |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the material or the labor, and at what rate? | 21. The cost of making has been reduced by a fall in the price of materials used, and experience in the operations.                                                       |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                       | 22. The price of small castings has fallen from 9 to five cents per lb., and larger ones from 6 to 4¢.                                                                    |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                 | 23. No similar articles imported.                                                                                                                                         |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                             | 30. Live on until it disappears, then get an office in the Government. I can't farm.                                                                                      |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                | 32. Railroads and canals will soon reach the most remote point in our country at which these articles are wanted.                                                         |

MAHLON BETTS.

## DOCUMENT 15.—No. 50.

*Iron Foundry, Wilmington, Newcastle County, Delaware.*

| QUESTIONS.                                                                           | ANSWERS.                                   |
|--------------------------------------------------------------------------------------|--------------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Wilmington, Newcastle county, Delaware. |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. Iron foundry, with steam power.         |

## DOCUMENT 15.—No. 50—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                  | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                     | 3. January, 1831.                                                                                                                                                                                                                                                                                                                                                           |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                                                                                                                                                 | 4. Eight thousand dollars.                                                                                                                                                                                                                                                                                                                                                  |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                       | 9. About twenty thousand dollars iron castings; average price about five cents per pound.                                                                                                                                                                                                                                                                                   |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                             | 10. One hundred and seventy-five tons American pig iron, worth from thirty-five to forty dollars per ton; from twenty to forty tons Scotch pig, worth from forty-three to forty-eight dollars per ton; about fifty tons old castings, worth from fifteen to twenty-two dollars per ton: two hundred tons Lehigh coal, worth about six dollars and sixty-five cents per ton. |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                           | 12. Fifteen men and boys; wages, average of all, about six dollars per week each.                                                                                                                                                                                                                                                                                           |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                            | 13. Employment all the year; work about ten hours per day.                                                                                                                                                                                                                                                                                                                  |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                   | 16. Principally at the manufactory; some sent to Philadelphia, a distance of thirty miles.                                                                                                                                                                                                                                                                                  |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale; and to what extent?                                                                                                                                   | 17. No foreign competition.                                                                                                                                                                                                                                                                                                                                                 |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                    | 18. In the United States.                                                                                                                                                                                                                                                                                                                                                   |
| 20. Whether the manufactory is sold by the manufacturer for cash? if on credit, at what credit? if bartered, for what?                                                                                                                                      | 20. Usual terms six months.                                                                                                                                                                                                                                                                                                                                                 |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you manufacture at reduced prices? | 29. If the duty was reduced to 12½ per cent., it would cause us to abandon our business.                                                                                                                                                                                                                                                                                    |
| 35. Amount of capital?                                                                                                                                                                                                                                      | 33. Seven thousand dollars.                                                                                                                                                                                                                                                                                                                                                 |

WILMINGTON, Delaware.

JONATHAN BONNEY &amp; Co.

## DOCUMENT 15.—No. 51.

*Manufactory of Tin and Sheet Iron Ware, Newcastle County, Delaware.*

| QUESTIONS.                                                                           | ANSWERS.                                |
|--------------------------------------------------------------------------------------|-----------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Delaware State, Newcastle county.    |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. Tin and sheet iron ware; hand power. |



## DOCUMENT 15.—No. 51—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                  | ANSWERS.                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                     | 3. In 1813; private concern.                                                                                                                                                                                            |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                                                                                                                                                 | 4. Six thousand five hundred dollars in ground and buildings.                                                                                                                                                           |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                             | 5. From four to five thousand dollars whole.                                                                                                                                                                            |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                     | 7. Profit decreased, owing to home competition.                                                                                                                                                                         |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                             | 10. About two thousand dollars foreign, and one thousand dollars domestic.                                                                                                                                              |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                            | 12. Three men and two boys; men \$1 per week, boys worth \$2 per week.                                                                                                                                                  |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                            | 13. Eleven hours a day, all the year.                                                                                                                                                                                   |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                   | 16. Market at the manufactory.                                                                                                                                                                                          |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                  | 17. No foreign competition.                                                                                                                                                                                             |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                    | 18. In the country around.                                                                                                                                                                                              |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                    | 19. None exported.                                                                                                                                                                                                      |
| 20. Whether the manufacture is sold by the manufacturer for cash? if on credit, at what credit? if bartered, for what?                                                                                                                                      | 20. Credit of one year generally.                                                                                                                                                                                       |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you manufacture at reduced prices? | 29. Compelled to abandon my business.                                                                                                                                                                                   |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                              | 30. The foregoing being the business which I principally subsist, I know of no other that I could advantageously employ my capital in, should I be so fortunate as to save my thing from the ruins of my establishment. |

THOS. C. ALRICH.

## DOCUMENT 15.—No. 52.

*Manufactory of Tin and Sheet Iron Ware, Newcastle County, Delaware.*

| QUESTIONS.                                                                           | ANSWERS.                             |
|--------------------------------------------------------------------------------------|--------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Delaware State, Newcastle county. |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. Tin and sheet iron ware; hand.    |

## DOCUMENT 15.—No. 52—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                     | ANSWERS.                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 1. When established; and whether a joint concern?                                                                                                                                                                                                              | 3. In 1820; private.                                                                                                                |
| 2. Capital invested in ground and buildings; and water power and machinery?                                                                                                                                                                                    | 4. Four thousand five hundred dollars, ground and buildings.                                                                        |
| 3. Average amount in materials, and in labor for the purchase of materials and payment of wages?                                                                                                                                                               | 5. One thousand dollars in materials, cash for the purchase of materials two hundred dollars, wages nine hundred dollars per annum. |
| 4. Amount of articles annually manufactured since the establishment of the manufactory—Description, quality, and value of each?                                                                                                                                | 9. From three to four thousand dollars per annum.                                                                                   |
| 5. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                 | 10. Sheet iron \$500 per annum, tin \$1,540 per annum.                                                                              |
| 6. Number of men, women, and children employed, and average wages of each?                                                                                                                                                                                     | 12. Three men, wages \$6 per week.                                                                                                  |
| 7. How many hours a day employed; and at what portion of the year?                                                                                                                                                                                             | 13. Ten hours.                                                                                                                      |
| 8. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                       | 16. Find a market in Delaware, Pennsylvania, and Maryland.                                                                          |
| 9. Whether foreign articles of the like kind enter into competition with them at the place of sale; and to what extent?                                                                                                                                        | 17. None that I know of.                                                                                                            |
| 10. Where are the manufactures consumed?                                                                                                                                                                                                                       | 18. In the United States.                                                                                                           |
| 11. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                       | 19. None.                                                                                                                           |
| 12. Whether the manufacture is sold by the manufacturer for cash? if on credit, at what price? if bartered, for what?                                                                                                                                          | 20. Principally bartered for feathers, wool, quills, &c.                                                                            |
| 13. If the duty upon the foreign manufactures of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would you be induced to abandon your business, or would you manufacture at reduced prices? | 29. Could afford to manufacture at reduced prices.                                                                                  |

NATH. BECKLEY.

## DOCUMENT 15.—No. 53.

*Tin, Copper, and Sheet Iron Ware Manufactory, State of Delaware, Newcastle County.*

| QUESTIONS.                                                                       | ANSWERS.                                   |
|----------------------------------------------------------------------------------|--------------------------------------------|
| 1. State and county in which the manufactory is situated?                        | 1. State of Delaware, Newcastle county.    |
| 2. Kind or description of the manufactory; whether water, steam, or other power? | 2. Tin, copper; and sheet-iron ware; hand. |

## DOCUMENT 15.—No. 53—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                  | ANSWERS.                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                     | 3. In 1792; private.                                                                                                 |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                             | 4. Ground and buildings \$3,000.                                                                                     |
| 5. Average amount in materials, and in cash for the purchase of materials, and payment of wages?                                                                                                                                                            | 5. Average amount in materials, and cash for the purchase of materials, \$800.                                       |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                             | 10. 100 lbs. of copper, at 25 cents<br>50 boxes tin, at 9 to \$10 per box.<br>1,200 cwt. sheet iron, at \$8 per cwt. |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                           | 12. Do the work within ourselves; 3 persons.                                                                         |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                   | 16. Principally at the manufactory.                                                                                  |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?                                                                                                                                   | 17. No foreign competition.                                                                                          |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                    | 18. In the United States.                                                                                            |
| 19. Whether any of the manufactures are exported to foreign countries? And if so, where?                                                                                                                                                                    | 19. None.                                                                                                            |
| 20. Whether the manufacture is sold by the manufacturer for cash? if on credit, at what credit? if bartered, for what?                                                                                                                                      | 20. Principally for cash.                                                                                            |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you manufacture at reduced prices? | 29. If the duty was reduced, we should be compelled to abandon our business.                                         |

SAM'L WOOD.

## DOCUMENT 15.—No. 54.

*D. C. Wilson's Brick Manufactory, Newcastle County, State of Delaware.*

| QUESTIONS.                                                                                      | ANSWERS.                                                              |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Delaware State, Newcastle county.                                  |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?            | 2. Brickmaking; hand.                                                 |
| 3. When established; and whether a joint stock concern?                                         | 3. In 1827; private.                                                  |
| 4. Capital invested in ground and buildings, and water power and machinery?                     | 4. Ground and buildings \$6,000.                                      |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 5. Payment of wages about \$4,000 per annum; wood, \$2,500 per annum. |

## DOCUMENT 15.—No. 54.—Continued.

| QUESTIONS.                                                                                                                    | ANSWERS.                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of kind? | 9. 1,300,000 bricks per annum; run of the kiln \$6 per thousand.                                    |
| 1. Number of men, women, and children employed, and average wages of each?                                                    | 12. 20 men and 10 boys; average for men \$30 per month; boys \$12 per month.                        |
| 2. How many hours a day employed; and portion of the year?                                                                    | 13. Work by the piece.                                                                              |
| 3. Number of horses or other animals employed?                                                                                | 15. 5 horses.                                                                                       |
| 4. Whether the manufactures find a market at the manufactory? If not, how far are sent to a market?                           | 16. $\frac{1}{2}$ at the manufactory; $\frac{1}{2}$ at Philadelphia, and $\frac{1}{2}$ in New York. |
| 5. Where are the manufactures consumed?                                                                                       | 18. In the United States.                                                                           |
| 6. Whether any of the manufactures are exported to foreign countries? and if so, where?                                       | 19. None.                                                                                           |
| 7. Whether the manufacture is sold by manufacturer for cash? and if on credit, what credit? if bartered, for what?            | 20. Credit of 6 months.                                                                             |
| 8. The prices at which the manufactures have been sold by the manufacturer since establishment?                               | 22. Average \$6 per thousand.                                                                       |
| 9. Amount of capital?                                                                                                         | 23. \$7,000.                                                                                        |

## DOCUMENT 15.—No. 55.

*Jonathan Rumford, Brick Maker, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                    | ANSWERS.                                          |
|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| State and county in which the manufactory is situated?                                                                        | 1. Delaware, New Castle county.                   |
| Kind or description of the manufactory; whether water, steam, or other power? When established; and whether a joint concern?  | 2. Brick making; hand.                            |
| Capital invested in ground and buildings, and water power and machinery?                                                      | 3. In 1837. Private.                              |
| Average amount in materials, and in for the purchase of materials and payment of wages?                                       | 4. \$1,500 in ground and buildings.               |
| Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each? | 5. Payment of wages \$1,200; materials \$1,000.   |
| 1. Number of men, women, and children employed, and average wages of each class?                                              | 9. 350,000 bricks a year.                         |
| 2. How many hours a day employed, and portion of the year?                                                                    | 12. Nine men, average wages 25 dollars per month. |
| 3. Whether the manufactures find a market at the manufactory? If not, how far are sent to a market?                           | 13. Nine hours a day, six and a half months.      |
|                                                                                                                               | 16. Principally at home.                          |

## DOCUMENT 13.—No. 55—Continued.

| QUESTIONS.                                                                                                                 | ANSWERS.                                                          |
|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 18. Where are the manufactures consumed?                                                                                   | 18. In the United States.                                         |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                   | 19. None exported.                                                |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what? | 20. One half cash; the other on a credit from two to four months. |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                       | 22. Average \$ 6 per thousand.                                    |

JONATHAN RUMFORD

## DOCUMENT 15.—No. 56.

*Abel Jeanes, Lime, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Delaware State, New Castle county.                                                    |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Lime.                                                                                 |
| 3. When established; and whether a joint stock concern?                                                                               | 3. In 1816. Private.                                                                     |
| 4. Capital invested in ground and buildings, and water power, and machinery?                                                          | 4. Fifty thousand dollars.                                                               |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. \$ 5,000; about 4 or 5,000 dollars; about \$ 4,000 per annum; aggregate \$14,000.     |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. 50,000 bushels of lime annually.                                                      |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?       | 10. Quarried 50,000 bushels of stone.                                                    |
| 12. Number of men, women, and children employed, and average wages of each class?                                                     | 12. From 25 to 30 men.                                                                   |
| 13. How many hours a day employed, and what portion of the year?                                                                      | 13. From sun to sun.                                                                     |
| 15. Number of horses or other animals employed?                                                                                       | 15. 21 horses, and seven or eight yoke of oxen.                                          |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                             | 16. Market in the surrounding country.                                                   |
| 18. Where are the manufactures consumed?                                                                                              | 18. In the surrounding country.                                                          |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 19. None.                                                                                |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 20. Cash.                                                                                |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                  | 22. Previous to 1822, sold at 30 cents per bushel; after which time it fell to 20 cents. |

ABEL JEANES.

## DOCUMENT 15.—No. 57.

*Lime Manufactory, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                               | ANSWERS.                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                | 1. Delaware State, Newcastle county.                                                                 |
| 2. Kind or description of the manufactory; whether water, steam, or other power?                                                                                                                                                                         | 2. Lime.                                                                                             |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                  | 3. In 1816; private.                                                                                 |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                                                                                                                                              | 4. Ground and buildings, \$20,000.                                                                   |
| 5. Average amount in materials, and in wages for the purchase of materials and payment of wages?                                                                                                                                                         | 5. Materials, 450 dollars; for the purchase of materials, \$220 annually; payment of wages, \$1,200. |
| 6. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                    | 9. 35,000 bushels of white lime at 20 cts. per bushel; 10,000 bushels of stone at 6 cts. per bushel. |
| 7. Quantity and value of different kinds of materials used; distinguishing between foreign products and domestic products?                                                                                                                               | 10. 45,000 bushels stone per annum.                                                                  |
| 8. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                         | 12. 14 men, average \$18 per month.                                                                  |
| 9. How many hours a day employed, and what portion of the year?                                                                                                                                                                                          | 13. From sun to sun the whole year.                                                                  |
| 10. Number of horses or other animals employed?                                                                                                                                                                                                          | 15. 17 horses and 3 yoke of oxen.                                                                    |
| 11. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                | 16. Sell one-half at the kiln, and the other half sold within 15 miles.                              |
| 12. Where are the manufactures consumed?                                                                                                                                                                                                                 | 18. In the country around.                                                                           |
| 13. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                | 19. None.                                                                                            |
| 14. Whether the manufacture is sold by the manufacturer for cash? and if on credit, what credit? if bartered, for what?                                                                                                                                  | 20. Cash.                                                                                            |
| 15. Whether the cost of the manufactured article (to the manufacturer) has increased, decreased; and how much in each year since the establishment of the manufactory; and whether the increase has been in the material or the labor, and at what rate? | 21. Decreased in labor and material.                                                                 |
| 16. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                     | 22. Average 20 cents per bushel.                                                                     |
| 17. What amount of the agricultural products of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                            | 27. 52 barrels of flour.                                                                             |

JOSEPH EASTBURN.

*Tabular Statement for Hatters, Bootmakers, and other Manufac-*

| Date of establishment, &c.          | Names of manufacturers and mechanics.                         | Capital invested in ground, buildings, water power, and machinery. | Average amt in materials, cash for purchase of materials and payment of wages. | Amount of articles annually manufactured. | Kinds.                                                                                                         |
|-------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 1825. Concern private.              | W. R. Sellars, hatter.                                        | \$7,000                                                            | \$3,000                                                                        | \$12,000                                  | Fur hats and caps.                                                                                             |
| 1831. Concern private.              | Peter Springer, hatter.                                       | 1,700                                                              | 1,500                                                                          | Not estimated.                            | Hats, near 1,000.<br>+ castor.<br>+ 2d quality castor.<br>+ rocam.<br>+ for youth, and hats of lowest quality. |
| 1820. Concern private.              | Lewis Rumford, hatter.                                        | 3,300                                                              | 3,000                                                                          | 1,200                                     | Fur hats -                                                                                                     |
| 1826. Concern private.              | Enoch Roberts, tallow chandler.                               | 4,000                                                              | 13,000                                                                         | 16,000                                    | Soap and candles -                                                                                             |
| 1829.                               | Bainton & Bancroft, tallow chandlers.                         | 6,500                                                              | 11,450                                                                         | 20,500                                    | Do do -                                                                                                        |
| From 1832, by Estab-lished in 1813. | Mahlon Betts, proprietor of iron foundry; steam power.        | 7,850                                                              | 8,000                                                                          | No estimate.                              | - - -                                                                                                          |
| 1831.                               | Jonathan Bonny and Co., iron foundry; steam power.            | 8,000                                                              | -                                                                              | 20,000                                    | Castings - -                                                                                                   |
| 1813. Concern private.              | F. C. Alrichs, manufacturer of iron and tin ware.             | 6,500                                                              | 4,500                                                                          | -                                         | Iron and tin ware -                                                                                            |
| 1830. Concern private.              | N. Beckley, manufacturer of tin and sheet iron ware.          | 4,500                                                              | 3,900                                                                          | 3,500                                     | Do do -                                                                                                        |
| 1792. Concern private.              | Samuel Wood, manufacturer of tin, copper and sheet iron ware. | 3,000                                                              | 800                                                                            | -                                         | Tin, copper and iron ware.                                                                                     |
| 1827. Concern private.              | David C. Wilson, brickmaker.                                  | 6,000                                                              | 6,500                                                                          | 7,200                                     | Bricks - -                                                                                                     |
| 1827. Concern private.              | Jonathan Rumford, brickmaker.                                 | 1,500                                                              | 2,200                                                                          | 2,100                                     | Do - -                                                                                                         |
| 1816. Concern private.              | Abel Jeanes, lime burner.                                     | 50,000                                                             | 14,000                                                                         | -                                         | Lime, white and brown.                                                                                         |
| 1816. Concern private.              | Jos. Eastburn, lime burner.                                   | 20,000                                                             | 1,870                                                                          | 7,000                                     | Do do -                                                                                                        |
|                                     |                                                               | \$139,850                                                          | \$73,720                                                                       | 90,100                                    |                                                                                                                |

—No. 58.

*turers and Artisans, in Newcastle County, Delaware.*

| Quantity and value of raw materials.                                                                                                                                                 | Prices at which the manufactures have been sold since the establishment.                                                     | No. of men, women, and children employed. | Wages of men, women, and children. | Number of horses. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------|-------------------|
| Domestic, worth \$1,100<br>Foreign, worth 2,000                                                                                                                                      | From 2 to \$10                                                                                                               | 5                                         | Not stated.                        |                   |
| Half domestic, half foreign; price not stated.                                                                                                                                       | Beaver hats, \$9<br>Castor, (best,) 8<br>2d do. from 7 to 5<br>Rorams, \$4 to \$3 50<br>Youths' and inferior, \$2 50 to \$3. | 4                                         | Men, \$7 pr. week, women, \$3.     |                   |
| Domestic \$1,400<br>Foreign 600                                                                                                                                                      | -                                                                                                                            | 5                                         | Not stated.                        |                   |
| Domestic; quantity not stated                                                                                                                                                        | Soap, at 6 cts. av.<br>Candles, 10 do.                                                                                       | 6                                         | Men, \$23 pr. month.               | 6                 |
| Rough fat, 150,000 lbs.<br>Tallow, 80,000 do.<br>Barilla, \$1,200 worth.<br>Coal, 1,000 bush. at 20 cents<br>Iron, domestic, 166½ tons, \$35<br>Iron, foreign, 83½ tons, \$35        | Soap, 7 do.<br>Candles, 10 do.                                                                                               | 5                                         | Do. \$4 65 pr. week.               | 6                 |
|                                                                                                                                                                                      | -                                                                                                                            | 18                                        | Not stated.                        |                   |
| Amer. pig iron, 175 tons, at \$37½<br>Scotch pig iron, 30 tons, at \$45½<br>Old castings, 50 tons, at \$17½<br>Lehigh coal, 200 tons, at \$6 65<br>Domestic \$2,000<br>Foreign 2,000 | 5 cents per lb.                                                                                                              | 15                                        | Men, \$6 av. per week.             |                   |
| Sheet iron 500<br>Tin 1,560                                                                                                                                                          | -                                                                                                                            | 5                                         | Do. \$6 per w'k, children, \$2.    |                   |
|                                                                                                                                                                                      | -                                                                                                                            | 3                                         | Do. \$6 per week.                  |                   |
| Tin, 50 tons, 9 to \$10 per box<br>Copper, 100 lbs., 25 cts.<br>Sheet iron, 1,200 cwt., at \$8                                                                                       | -                                                                                                                            | himself & son.                            |                                    |                   |
| -                                                                                                                                                                                    | \$6 per 1,000                                                                                                                | 30                                        | Do. \$30 pr. mo., children, \$12.  | 5                 |
| -                                                                                                                                                                                    | -                                                                                                                            | 9                                         | Do. \$25 pr. month.                |                   |
| Stone, 50,000 bushels                                                                                                                                                                | Previous to 1822, 30 cents per bushel; since, 20 cents.                                                                      | 30                                        | Not stated.                        | 21; oxen, 8 yoke. |
| Do 45,000 bushels                                                                                                                                                                    | -                                                                                                                            | 14                                        | Men, \$18 pr. month.               | 17; oxen, 3 yoke. |
|                                                                                                                                                                                      |                                                                                                                              | 153                                       |                                    | 55 11             |



## DOCUMENT 15.—No. 59.

*Thomas Crawford's Tannery and Bark Grinding Manufactory, Whitecley Creek, Newcastle County, State of Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. State and county in which the manufactory is situated?</p> <p>2. Kind or description of the manufactory; and whether water, steam, or other power?</p> <p>3. When established; and whether a joint stock concern?</p> <p>4. Capital invested in ground and buildings, and water power and machinery?</p> <p>5. Average amount in materials, and in cash for the purchase of materials and payment of wages?</p> <p>9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?</p> <p>10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?</p> <p>12. Number of men, women, and children employed, and average wages of each class?</p> <p>13. How many hours a day employed, and what portion of the year?</p> <p>15. Number of horses or other animals employed?</p> <p>16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?</p> <p>18. Where are the manufactures consumed?</p> <p>19. Whether any of the manufactures are exported to foreign countries? and if so, where?</p> <p>20. Whether the manufacture is sold by the manufacturer for cash? if on credit, at what credit? if bartered, for what?</p> <p>21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased, and how much in each year from the establishment of the manufactory; and whether the increase has been in the material or the labor, and at what rate?</p> | <p>1. Delaware, Newcastle county.</p> <p>2. Tannery of leather and bark grinding; water power.</p> <p>3. 1829; private.</p> <p>4. Ground and buildings \$6,000.</p> <p>5. Average amount in materials \$6,500; cash for the purchase of materials \$3,500; wages \$1,296 per annum.</p> <p>9. 175 tons, per annum, of quercitron bark, \$30; 500 hides tanned.</p> <p>10. 350 cords bark; 500 hides.</p> <p>12. 6 men; wages \$18 per month, each.</p> <p>13. 12 hours.</p> <p>15. 2 horses.</p> <p>16. Sent to Wilmington and Philadelphia.</p> <p>18. In the United States.</p> <p>19. None.</p> <p>20. Bark is sold for cash; credit on leather of from 4 to 6 months.</p> <p>21. Tanning increased; bark decreased.</p> |

## DOCUMENT 15.—No. 60.

*T. B. Armstrong & Co., Manufacturers of Leather and Quercitron Bark, State of Delaware, Newcastle County.*

| QUESTIONS.                                                                                                                      | ANSWERS.                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                       | 1. Delaware State, New Castle county.                                                |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                            | 2. Tannery and bark; hand and horse power.                                           |
| 3. When established, and whether a joint stock concern?                                                                         | 3. In 1831; private.                                                                 |
| 4. Capital invested in ground and building, and water power and machinery?                                                      | 4. \$1,500.                                                                          |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                 | 5. \$4,000 to \$5,000, the whole.                                                    |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products? | 10. 800 hides a year, 400 foreign and 400 domestic; 200 hhd. of bark (quercitron.)   |
| 12. Number of men, women, and children employed, and average wages of each class?                                               | 12. Two men, \$20 per month each; one boy, \$12 per month.                           |
| 13. How many hours a day employed, and what portion of the year?                                                                | 13. Twelve hours all the year.                                                       |
| 15. Number of horses or other animals employed?                                                                                 | 15. Two horses.                                                                      |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                       | 16. Wilmington and Philadelphia.                                                     |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?      | 17. None.                                                                            |
| 18. Where are the manufactures consumed?                                                                                        | 18. In the United States.                                                            |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                       | 19. None.                                                                            |
| 20. Whether the manufacture is sold by the manufacturer for cash? and, if on credit, at what credit? if bartered, for what?     | 20. Sold on a credit of four months, generally.                                      |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                            | 22. Average price 26 cents per lb. for leather; bark \$22 per hoghead on an average. |

T. B. ARMSTRONG & CO.

## DOCUMENT 15.—No. 61.

*Benjamin Webb's Bark Mill, State of Delaware, Newcastle County.*

| QUESTIONS.                                                                           | ANSWERS.                              |
|--------------------------------------------------------------------------------------|---------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Delaware State, New Castle county. |
| 2. Kind or description of the manufactory, and whether water, steam, or other power? | 2. Bark mill, water power.            |

| QUESTIONS.                                                                                                                                                                                                                                                | ANSWERS.                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                   | 3. In 1827, private concern.                                                                         |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                                                                                                                                               | 4. Four thousand dollars.                                                                            |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                           | 5. About \$1,500 for the whole.                                                                      |
| 7. Cause of the increase (or decrease, as the case may be,) of profit?                                                                                                                                                                                    | 7. Decrease; apparent cause, home competition.                                                       |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                     | 9. About 300 tons of bark per annum; is one kind, first quality quercitron; soap value \$32 per ton. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                           | 10. About 600 cords of bark, at \$1                                                                  |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                          | 12. Seven men at \$4 50 per week.                                                                    |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                          | 13. Eight hours all the year.                                                                        |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                           | 15. One horse.                                                                                       |
| 16. Whether the manufactures finds a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                | 16. Philadelphia and New York.                                                                       |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale; and to what extent?                                                                                                                                 | 17. No foreign competition.                                                                          |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                  | 18. In England, France, and Germany.                                                                 |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                  | 19. As above.                                                                                        |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                | 20. Always for cash.                                                                                 |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the material or the labor, and at what rate? | 21. Decreased 50 per cent. in the manufactured article.                                              |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                      | 22. Answered in the 9th question.                                                                    |

BENJAMIN WEBB.

## DOCUMENT 15.—No. 62.

*Tanning of Leather, Newcastle County, State of Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                | ANSWERS.                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                 | 1. Delaware State, Newcastle county.                                      |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                                                                                                                                      | 2. Tanning of leather; hand power.                                        |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                   | 3. In 1828; private.                                                      |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                                                                                                                                               | 4. \$3,500.                                                               |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                           | 5. \$5,350 the whole.                                                     |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                           | 10. 1,000 hides, 125 cords of bark, domestic.                             |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                         | 12. 1 man, 2 boys; man's wages \$17 per month, boys \$1 50 each per week. |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                          | 13. 12 hours.                                                             |
| 15. Number of horses, or other animals employed?                                                                                                                                                                                                          | 15. 1 horse.                                                              |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                 | 16. $\frac{2}{3}$ at the manufactory, and $\frac{1}{3}$ in Philadelphia.  |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                  | 18. In the United States.                                                 |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                  | 19. None.                                                                 |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                | 20. Generally at 90 days.                                                 |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the material or the labor, and at what rate? | 21. Cost increased six per cent. in the material.                         |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                      | 22. Sold in 1829, at 23 cts. per lb.<br>1830, 24    "<br>1831, 26    "    |

JAMES CARSON.

## DOCUMENT 15.—No. 63.

*Tannery, Wilmington, Newcastle County, Delaware.*

| QUESTIONS.                                                                           | ANSWERS.                                            |
|--------------------------------------------------------------------------------------|-----------------------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Wilmington, Newcastle county, State of Delaware. |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. A small tannery; horse power.                    |

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Soon after the first settlement of the town, about ninety years ago; have no part in business.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 4. Capital invested in ground and buildings, water power, and machinery?                                                                                                                                                                                                                             | 4. Perhaps three or four thousand dollars.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. To this and the next query I cannot give precise answers. Not having any joint concern, nor any borrowed capital, I have not been under the necessity of keeping any account of purchases or sales; have no balance sheet, nor any means to ascertain profits or loss, but by experience. I may, however, add, that I am not sensible of having increased my property any thing within ten or twenty years. The amount of wages paid in the tannery may be four hundred and fifty or five hundred dollars per annum.                                                                                                                                                                                                                                                                                             |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory, distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 7. As above, I cannot say any thing about profit, of late times, as it respects myself; but many tanners in this State have failed, and others have abandoned the business. The deficiency of profit arises from the low price of leather, and the increased cost, especially of bark, and this has principally arisen from the competition the numerous establishments occasion, which has, as it always must have, the effect of reducing the profit to the lowest supportable degree. In every manufacture, of which a knowledge and privilege are open to society, and the necessary materials plenty and accessible, the profit will be reduced, even though the price of the product should rise in consequence of the advanced price of materials; in which case the community at large receive the advance. |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 8. I cannot tell.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 9. I have never, in any one year, sold as much manufactured goods as I had capital employed, which may have varied from five thousand to ten thousand dollars; but what part of it has been employed in tanning, I cannot tell. Of late, it is probable my sales do not exceed 2,500 dollars per annum, and the expenditure about or nearly as much; product, principally sole leather. I have some land in the vicinity of the city, the expenses and product of which are so intimately connected with my tanning business, that I cannot be particular.                                                                                                                                                                                                                                                          |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 10. Principally domestic products. For the rest, see above. I may add that probably one-tenth part of the purchases may be of foreign hides.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 11. I believe that there is very little leather of the kind we make, imported. Do not know any thing respecting the price of such leather as is imported at present.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

DOCUMENT 15—No. 63—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                          | 12. Commonly two or three men employed; occasionally more. As it respects wages, answered elsewhere.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                           | 13. The working hours are from sunrise until sunset. Don't work at night. I keep my men all the year generally.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                           | 14. I cannot tell with respect to foreign countries, other than it is understood that, by dint of oppression, and the extreme penury of the working class, employers are enabled to sell goods very low. The wages of laborers here is not materially different from those of our journeymen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                            | 15. Sometimes two; one is sufficient for the tannery.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                  | 16. I sell commonly either at home or in Philadelphia.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 17. Whether foreign articles of the like kind enter into competition with them at such place of sale; and to what extent?                                                                                                                                  | 17. Answered at the 11th query.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                   | 18. Principally in the United States; some, especially light leather, is sent to the West Indies and South America, and, perhaps, to Mexico.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                  | 19. Answered above.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? it bartered, for what?                                                                                                                                 | 20. When cash can be obtained, it is preferred; but most commonly quantities sell at 3, 4, or 6 months' credit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. In this neighborhood the cost to the manufacturer has greatly increased in my time; the increase has been both in the material and labor; slaughter hides 25 per cent.; Spanish 50 per cent.; bark 300 per cent.; labor 25 per cent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                       | 22. When I first became acquainted with the tanning business, viz. in 1778, the price of sole leather in this place was equal to 28 cents; (in silver money;) harness leather 33½ per lb., and calf skins 106 cents per lb., being considerably higher than at present, although the materials and labor have risen as before stated. The case, I think, affords a striking evidence of the utility or necessity of continuing the tariff, and even increasing it on many articles. Previously to the revolution, although we abounded in every requisite material for making leather, yet very large quantities were imported from England; no power existed here to reject it, and foster our own manufactures; a consequence was, that when war came, the country was bare of leather, and suffered greatly. Another consequence was, a speedy rise in the price of about 60 per cent., which, with the monopoly that followed, increased the |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?</p> <p>24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?</p> <p>25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually?</p> <p>26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?</p> <p>27. What amount of the agricultural products of the country is consumed in your establishment, and what amount of other domestic productions?</p> <p>29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you manufacture at reduced prices?</p> | <p>production; and this monopoly and production, before the war closed, reduced the price ten per cent. When peace came, things returned nearly to the old condition; a free trade for the introduction of English manufactures; general paralización followed; the prices of commodities, fell, it is true, but the means to pay for them failed in a still greater degree. But since sufficient protection for leather has been given by our laws, the manufactured article has become abundant; for, though comparatively little is now done in this State, it has increased greatly in others where bark is plenty. The price of leather is very reasonable, much lower, especially sole leather, than in England; yet there can be no doubt but that the prejudices of some would call for it from thence if the duty should be taken off. Very few persons have a just idea of the effect which the importation of a fifth part of a commodity used would have on the prosperity of the manufacturer here. When the war of the revolution began, we were supposed to have a population of about three millions, say one-quarter of our present number.</p> <p>23. The existing duty appears sufficient, at least on sole leather; but no benefit can arise, perhaps much injury, from a reduction.</p> <p>24. I have no information on this subject.</p> <p>25. I am not competent to answer further than is found elsewhere.</p> <p>26. I have not the necessary means to enable me to be minute in answering this query. Some parts may be collected from the answers to other queries.</p> <p>27. I should find a difficulty in classifying the very few products a tanner uses, whether to call them agricultural or domestic productions. We do not use any foreign commodity, except some hides, which, in my concern, may amount to one-tenth part.</p> <p>29. The article cannot be made at reduced prices, by any ordinary and known process, without a corresponding reduction in labor, and in the raw materials, products of the country. One-half of the tanners in this State, have within the last twenty-five</p> |

## QUESTIONS.

## ANSWERS.

30. If it would cause you to abandon your business, in what way would you employ your capital?

31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?

32. Are not the manufactures of salt and iron remote from the points of importation out of foreign competition within a certain circle around them, and what is the extent of that circle?

33. Amount of capital; and what proportion the borrowed capital bears to that which is real?

34. What amount of reduction in the duties would enable the actual or real capital employed, to yield an interest of 6 per cent.; and how gradual the reduction should be?

35. If minimums should be abolished, and the duty assessed upon the real value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum?

36. What would be the operation of this change upon the frauds at present supposed to be practised?

37. Proportion which the production by the American manufacturers bears to the consumption?

38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?

39. Average profit of money or capital in the United States?

40. Average rate of wages?

years, either failed, reduced their business, or retired from it. What I might do, in the predicament suggested, is unknown, but it is probable that, in most cases of large business, where the manufacturer should sell at a less profit than the present, a loss would be sustained by his creditors, the country at large. Our observations, however, are meant to apply particularly to the old manufactories in the country at large. What may be done in some extensive establishments, with patented inventions, recently formed in the forests of New York and elsewhere, is not fully known to me.

30. I cannot answer this question. I am not fertile in finding resources.

31. Answered above.

32. I have not any knowledge of those things.

33. Answered already; have no borrowed capital.

34. The reduction of duties, in any degree, would not enable the manufacturer to obtain six per cent., though it might oblige him to accept of three, or less.

35. I am not acquainted with the subject.

36. I cannot say.

37. If the question relate to tanned leather only, I should say, according to my apprehension, almost the whole.

38. I do not possess the means to make the calculation.

39. Cannot say.

40. It is difficult to speak of average wages, and of different places; but so far as my knowledge extends, the common wages of a journeyman tanner, who finds himself, is about 75 cents per diem.

[NOTE.—These inquiries relate more particularly to manufactures carried on in large establishments. In respect to those branches, however, which are carried on in private workshops, as those of hats, shoes, saddlery, &c., such detailed information is not necessary.



It will be sufficient to state, in the aggregate, the amount of capital employed, the value of the manufactured articles, the number of persons employed, the rate of wages, the rate of profit upon the capital, what portion of materials is of American production; to what extent foreign articles, of the like kinds, enter into domestic consumption, and what reduction of duty could be made without increasing foreign competition in the home market.]

I did not read the above note until the answers were formed; otherwise they might, and probably would, have been curtailed, at least some of them;—the small business I do, not requiring or affording much information.

ISAAC H. STARR.

DOCUMENT 15.—No. 64.

*James Webb, Currier, New Castle County, Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                  | ANSWERS.                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                   | 1. Delaware State, New Castle county.                                                                               |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                        | 2. Currying of leather.                                                                                             |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                     | 3. In 1821. Private.                                                                                                |
| 4. Capital invested in ground and buildings?                                                                                                                                                                                                                | 4. Seven thousand dollars.                                                                                          |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                             | 5. \$ 10,000; wages \$ 800 per annum                                                                                |
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                       | 7. Decrease of profit owing to competition.                                                                         |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                       | 9. 6,000 calf-skins; 800 upper hides; 400 horse hides; 200 sides of belt leather.                                   |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                           | 12. Three men, one boy; wages \$300 per annum each man, boy's wages \$150 per ann.                                  |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                            | 13. Twelve hours, all the year.                                                                                     |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                   | 16. Generally at the manufactory.                                                                                   |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                  | 17. None.                                                                                                           |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                    | 18. In the United States.                                                                                           |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                    | 19. None.                                                                                                           |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                  | 20. Generally at three months' credit.                                                                              |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                        | 22. Calf-skins \$ 27 per dozen, average; upper \$ 5.50 per hide; horse hides \$ 5.25 per hide; belt \$ 12 per hide. |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you manufacture at reduced prices? | 29. It would cause me to abandon my business.                                                                       |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                              | 30. Cannot tell.                                                                                                    |

JAMES WEBB.

## DOCUMENT 15.—No. 65.

*Charles G. Denny, Currier, Newcastle County, Delaware.*

## QUESTIONS.

1. State and county in which the manufactory is situated?
2. Kind or description of the manufactory; and whether water, steam, or other power?
3. When established, and whether a joint stock concern?
4. Capital invested in ground and buildings, and water power and machinery?
5. Average amount in materials, and in cash for the purchase of materials and payment of wages?
9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?
12. Number of men, women, and children employed, and average wages of each class?
13. How many hours a day employed, and what portion of the year?
16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?
17. Whether foreign articles of the like kind enter into competition with them at such place of sale, and to what extent?
18. Where are the manufactures consumed?
19. Whether any of the manufactures are exported to foreign countries? and if so, where?
20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?
21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the material or the labor, and at what rate?

## ANSWERS.

1. Delaware State, New Castle county.
2. Currying of leather; hand.
3. In 1827; private concern.
4. Ground, buildings, and machinery, three thousand dollars.
5. About \$ 5,000; payment of wages 300 dollars per annum.
9. From 10 to \$ 12,000.
12. Two men, three boys; average wages of men \$ 600 per annum, boys \$ 300 perann.
13. 10 hours, all the year.
16. Principally at the manufactory.
17. None.
18. In Wilmington.
19. Export some to the West Indies.
20. Half for cash; the balance on a credit of four months.
21. Increased in the rough material eight per cent.

## DOCUMENT 15.—No. 66.

*F. H. Holtzbecher's Tannery, Newcastle County, State of Delaware.*

## QUESTIONS.

1. State and county in which the manufactory is situated?
2. Kind or description of the manufactory; and whether water, steam, or other power?
3. When established, and whether a joint stock concern?

## ANSWERS.

1. My tannery is situated in the county of Newcastle, State of Delaware.
2. Tanning of leather; chiefly sole leather, made of South American hides.
3. This tannery was established six years ago, on my own account.

| QUESTIONS.                                                                                                                                                                                                                                                | ANSWERS.                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4. Capital invested in ground and buildings, and water power and machinery?                                                                                                                                                                               | 4. \$2,500, including ground, buildings, vats, machinery, and utensils.                                                                                                                                                                  |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                           | 5. Raw hides, - - - \$3,700<br>120 cords Spanish oak bark, 1,200<br>Wages to hands in tan-yard, smiths, carpenters, and millwrights, bills and accidental charges, - - - 739<br>\$5,639                                                  |
| 7. Cause of increase (or decrease, as the case may be) of profit?                                                                                                                                                                                         | 7. Owing to increase of internal consumption, occasioned by increase of population, other manufacturing establishments, and exportation of shoes, boots, harnesses, &c.; the demand for all kinds of leather is considerably increasing. |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                     | 9. Chiefly sole leather; amount of sales about \$8,000 per annum.                                                                                                                                                                        |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                           | 10. There are worked in annually 1,000 South American hides, worth \$3,700; 120 cords Spanish oak bark, worth 1,200.                                                                                                                     |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                           | 11. Am of opinion that leather can be manufactured in the United States as low as any where else.                                                                                                                                        |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                          | 12. 2 men whose wages are about \$300<br>2 boys do 250<br>2 horses, expense of keeping, 100<br>\$650                                                                                                                                     |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                          | 13. The hands are employed from sunrise to sunset every day, if weather permits.                                                                                                                                                         |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                           | 15. 2 horses generally, and from 2 to 4 oxen, to remove tan, and for other purposes.                                                                                                                                                     |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                 | 16. The product of this establishment is disposed of at Baltimore, Philadelphia, and New York.                                                                                                                                           |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                | 17. Answered in query No. 11.                                                                                                                                                                                                            |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                  | 18. In the United States, British North American possessions, South America, and West India.<br>19. Answered in query No. 18.                                                                                                            |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                  |                                                                                                                                                                                                                                          |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                | 20. Leather is always sold on a credit of 4 and 6 months.                                                                                                                                                                                |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the material or the labor, and at what rate? | 21. South American hides are nearly a double price at present, than they were 35 years ago, when I first became acquainted with them. The price of Spanish oak bark has also much increased; and so have wages and other expenses.       |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                      | 22. Sole leather has sold, in quantity, from 24 to 27 cents per lb.                                                                                                                                                                      |

DOCUMENT 15.—No. 66.—Continued.

| QUESTIONS.                                                                                                                                                             | ANSWERS.                                                                                                                                                                                           |                             |       |                            |       |  |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------|----------------------------|-------|--|----------------|
| . What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                               | 23. Answered in query No. 11.                                                                                                                                                                      |                             |       |                            |       |  |                |
| . What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, what portion of the profits of capital? | 26. Answered previously.                                                                                                                                                                           |                             |       |                            |       |  |                |
| . What amount of the agricultural products of the country is consumed in your establishment, and what amount of other domestic productions?                            | <table> <tr> <td>27. Food for men and horses</td><td>\$500</td></tr> <tr> <td>120 cords Spanish oak bark</td><td>1,200</td></tr> <tr> <td></td><td><u>\$1,700</u></td></tr> </table>               | 27. Food for men and horses | \$500 | 120 cords Spanish oak bark | 1,200 |  | <u>\$1,700</u> |
| 27. Food for men and horses                                                                                                                                            | \$500                                                                                                                                                                                              |                             |       |                            |       |  |                |
| 120 cords Spanish oak bark                                                                                                                                             | 1,200                                                                                                                                                                                              |                             |       |                            |       |  |                |
|                                                                                                                                                                        | <u>\$1,700</u>                                                                                                                                                                                     |                             |       |                            |       |  |                |
| . What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own country?                                   | 28. I have understood, while at New York lately, that the sales of leather at that place alone amounted to \$3,500,000. The amount manufactured in the United States must therefore be very great. |                             |       |                            |       |  |                |

## Tabular Statement for Tanners and

| Names of manufacturers, and date of establishment, &c.                                      | Capital invested in ground, buildings, water power, and machinery. | Average amt in materials, and in cash for the purchase of materials and payment of wages. | Amount of articles annually manufactured.                                                 | Kinds.                                                       | Quantity of raw material              |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------|
| Thos. Crawford, manufacturer of leather & quercit. bark; 1829; water power; concern private | \$6,000                                                            | \$11,396                                                                                  | \$5,250 querc. bark, besides 500 hides tanned not estimated                               | Leather and quercit. bark                                    | 350 cords bark<br>500 hides           |
| T. B. Armstrong & Co., manufacturers of leather and querc. bark; 1831; horse power          | 1,500                                                              | 4,500                                                                                     | 800 sides leather, $\frac{1}{2}$ domestic, $\frac{1}{2}$ foreign; 200 hogshead q. c. bark | Do do                                                        | Do                                    |
| Benjamin Webb, manufacturer of Q. C. bark; 1827; water power; concern private               | 4,000                                                              | 1,500                                                                                     | \$6,600 q. bark                                                                           | Quer. bark                                                   | 600 cords bark                        |
| James Carson, manufacturer of leather; 1838; hand power; concern private                    | 3,500                                                              | 5,350                                                                                     | No estimate                                                                               | Leather and quer. bark                                       | 1,000 hides<br>125 cords bark         |
| Isaac Starr, manufacturer of leather; 1742; horse power; concern private                    | 3,500                                                              | Not stat.                                                                                 | 2,500                                                                                     | Leather                                                      | Hides                                 |
| James Webb, currier; 1821; concern private                                                  | 7,000                                                              | 10,800                                                                                    | 23,600                                                                                    | 6,000 calf sk's<br>800 up. hid.<br>400 horse "<br>200 belt " | -<br>-<br>-<br>-                      |
| Charles G. Denny, currier; 1827; concern private                                            | 3,000                                                              | 5,370                                                                                     | 11,000                                                                                    | Not stated                                                   | Not stated                            |
| F. H. Holtzbecker, manufacturer of leather; 1826; concern private                           | 2,500                                                              | 5,650                                                                                     | 8,000                                                                                     | Leather                                                      | 1,000 hides<br>120 cords bark         |
| Daniel Corbit, manufacturer of leather; concern private                                     | 31,000<br>2,000                                                    | 44,396<br>6,000                                                                           | 56,950<br>3,850                                                                           | Leather                                                      | 900 slaughter hides<br>700 calf skins |
| Aggregate                                                                                   | \$33,000                                                           | \$50,396                                                                                  | \$60,800                                                                                  |                                                              |                                       |

—No. 67.

*Curriers in Newcastle County, Delaware.*

| Prices at which the manufactures have been sold since the establishment. | Number of men, women, & children employed. | Wages of men.     | Wages of women. | Wages of children. | Number of horses. | Amount of agricultural products and other, domestic productions. | Value. |
|--------------------------------------------------------------------------|--------------------------------------------|-------------------|-----------------|--------------------|-------------------|------------------------------------------------------------------|--------|
| - -                                                                      | 6                                          | \$18 per month    | -               | -                  | 2                 |                                                                  |        |
| - -                                                                      | 3                                          | \$20 do           | -               | \$12               | 2                 |                                                                  |        |
| \$22 per ton                                                             | 7                                          | \$4 50 per week   | -               | -                  | 1                 |                                                                  |        |
| Do do<br>Leather in 1829, at<br>23 cts. per lb.                          | 3                                          | \$17 per month    | -               | \$1 50 per week    | 1                 |                                                                  |        |
| In 1830, 24 c. do                                                        |                                            |                   |                 |                    |                   |                                                                  |        |
| 1831, 26 c. do                                                           | 3                                          | -                 | -               | -                  | 1                 |                                                                  |        |
| Not stated                                                               |                                            |                   |                 |                    |                   |                                                                  |        |
| \$27 per dozen<br>5 50 per hide                                          | 4                                          | \$300 per an. ea. | -               | 150                |                   |                                                                  |        |
| 3 25 do                                                                  |                                            |                   |                 |                    |                   |                                                                  |        |
| 12 do                                                                    | 5                                          | \$300 per an. ea. | -               | \$150 per annum    |                   |                                                                  |        |
| Not stated                                                               |                                            |                   |                 |                    |                   |                                                                  |        |
| 24 to 26 cts. per lb.<br>\$1,900                                         | 4                                          | \$250 per an. ea. | -               | \$100 do. each     | 2                 | Food for men and horses                                          | \$500  |
|                                                                          | 35                                         |                   |                 |                    |                   |                                                                  |        |
| - -                                                                      | 2                                          | \$16 per month    | -               | \$125 do. each     | 9                 |                                                                  | \$500  |
|                                                                          | 37                                         |                   |                 |                    | 9                 |                                                                  | \$500  |

## DOCUMENT 15.—No. 68.

*George Platt's Manufactory of Flour and Barks, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Delaware State, New Castle county.                                                                                        |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                  | 2. Merchant flour mill and bark mill; water power.                                                                           |
| 3. When established, and whether a joint stock concern?                                                                               | 3. Established in 1827; private concern.                                                                                     |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                           | 4. Six thousand dollars.                                                                                                     |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. Twelve hundred dollars.                                                                                                   |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. Three hundred hhds. bark; four thousand barrels flour; eight hundred hhds. corn meal; and five hundred barrels corn meal. |
| 12. Number of men, women and children employed, and average wages of each class?                                                      | 12. Six hands, at one hundred and twenty dollars per month.                                                                  |
| 13. How many hours a day employed, and what portion of the year?                                                                      | 13. Mill runs day and night.                                                                                                 |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                             | 16. Market in Philadelphia, forty miles.                                                                                     |
| 18. Where are the manufactures consumed?                                                                                              | 18. In the United States and foreign countries.                                                                              |
| 20. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? If bartered, for what?                | 20. Cash.                                                                                                                    |

GEORGE PLATT.

## DOCUMENT 15.—No. 69.

*Manufactory of Grain, Bark, Plaster, &c. Newcastle County, Delaware.*

| QUESTIONS.                                                                           | ANSWERS.                                             |
|--------------------------------------------------------------------------------------|------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Delaware State, New Castle county.                |
| 2. Kind or description of the manufactory, and whether water, steam, or other power? | 2. Grain, plaster, bark, and lumber; water power.    |
| 3. When established, and whether a joint stock concern?                              | 3. In 1832.                                          |
| 4. Capital invested in ground and buildings, and water power and machinery?          | 4. Four thousand dollars.                            |
| 12. Number of men, women, and children employed, and average wages of each class?    | 12. Six men; average wages twenty dollars per month. |
| 13. How many hours a day employed, and what portion of the year?                     | 13. Twelve hours a day, all the year.                |
| 15. Number of horses or other animals employed?                                      | 15. Six horses; two yoke of oxen.                    |

Document 14.—No. 69.—Continued.

| QUESTIONS.                                                                                                | ANSWERS.                       |
|-----------------------------------------------------------------------------------------------------------|--------------------------------|
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market? | 16. Philadelphia or Baltimore. |
| 18. Where are the manufactures consumed?                                                                  | 18. In the United States.      |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                  | 19. None.                      |

GEORGE B. MEETEER.

## DOCUMENT 15.—No. 70.

*Samuel Eccles, Grain Mill, Appoquinimick Creek, Delaware.*

| QUESTIONS.                                                                                                                      | ANSWERS.                     |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                            | 2. Grain; water.             |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                     | 4. \$2,800.                  |
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products? | 10. 12,000 bushels of grain. |

SAMUEL ECCLES.

## DOCUMENT 15.—No. 71.

*John C. Phillips, Miller, Newcastle County, State of Delaware.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Delaware State, Newcastle county.                                                              |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                  | 2. Grain and saw mill.                                                                            |
| 3. When established; and whether a joint stock concern?                                                                               | 3. In 1806; private.                                                                              |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                           | 4. \$8,000.                                                                                       |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. Average amount in materials \$3,000, cash for the purchase of materials \$15,000; wages \$432. |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. 22,000 barrels of flour, \$5 25 per barrel; 2,800 barrels corn meal \$2 50.                    |



## DOCUMENT 15.—No. 71.—Continued.

| QUESTIONS.                                                                                                                      | ANSWERS.                                                     |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products? | 10. 10,000 bushels wheat, 10,000 bushels corn.               |
| 12. Number of men, women, and children employed, and average wages of each class?                                               | 12. Two men at \$18 per month.                               |
| 13. How many hours a day employed; and what portion of the year?                                                                | 13. Twenty-four hours.                                       |
| 15. Number of horses or other animals employed?                                                                                 | 15. Five horses.                                             |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                       | 16. Market at Wilmington, 8 miles, at Philadelphia 36 miles. |
| 18. Where are the manufactures consumed?                                                                                        | 18. In the United States.                                    |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                        | 19. None by me.                                              |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?      | 20. Cash.                                                    |

JOHN C. PHILLIPS.

## DOCUMENT 15.—No. 72.

*Samuel Stroud, jr.'s, Grain Mill, Whiteclay Creek, Newcastle County, State of Delaware.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Delaware, Newcastle county.                                   |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Grain; water power.                                                    |
| 3. When established; and whether a joint stock concern?                                                                               | 3. In 1829; private.                                                      |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                           | 4. \$12,000.                                                              |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. \$26,000 in all.                                                       |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. 2,000 barrels flour, worth \$5 25; 1,000 hogsheads corn meal, \$1,400. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?       | 10. 22,000 bushels of corn; 10,000 bushels of wheat.                      |
| 12. Number of men, women, and children employed, and average wages of each class?                                                     | 12. 2 men, average wages of each \$18 per month.                          |
| 13. How many hours a day employed, and what portion of the year?                                                                      | 13. 24 hours.                                                             |
| 15. Number of horses or other animals employed?                                                                                       | 15. 4 horses; 4 yoke of oxen.                                             |

## DOCUMENT 15.—No. 72.—Continued.

| QUESTIONS.                                                                                                                 | ANSWERS.                              |
|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                  | 16. Market at Philadelphia, 56 miles. |
| 18. Where are the manufactures consumed?                                                                                   | 18. United States and West Indies.    |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                   | 19. West Indies.                      |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what? | 20. Cash.                             |

## DOCUMENT 15.—No. 73.

*Bayard Grubb's Grain Mill, Newcastle County, State of Delaware.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Delaware, Newcastle county.                                                         |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Grain; water power.                                                                          |
| 3. When established; and whether a joint stock concern?                                                                               | 3. In 1828; private.                                                                            |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                           | 4. \$4,000.                                                                                     |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. Average amount in materials \$200; cash for the purchase of do. \$200; wages \$30 per annum. |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. 200 barrels of flour.                                                                        |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?       | 10. 1,000 bushels grain.                                                                        |
| 12. Number of men, women, and children employed, and average wages of each class?                                                     | 12. 1 hand, (myself) value \$20 per month.                                                      |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to market?                               | 16. Market in Wilmington, 5 miles.                                                              |
| 18. Where are the manufactures consumed?                                                                                              | 18. In the United States.                                                                       |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 19. None.                                                                                       |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 20. Cash.                                                                                       |

## DOCUMENT 15.—No. 74.

*Flour Mill, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                      | ANSWERS.                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                       | 1. Delaware State, Newcastle county.                                                                      |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                            | 2. Grain; water.                                                                                          |
| 3. When established; and whether a joint stock concern?                                                                         | 3. In 1831; private.                                                                                      |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                     | 4. One thousand dollars.                                                                                  |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                 | 5. One hand at \$12. No money expended for materials, as all that the mill does is for country customers. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products? | 10. About one thousand bushels of grain.                                                                  |
| 12. Number of men, women, and children employed, and average wages of each class?                                               | 12. One man, \$12 per month.                                                                              |
| 18. Where are the manufactures consumed?                                                                                        | 18. In the country around.                                                                                |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                        | 19. None.                                                                                                 |

JOSEPH PHILLIPS,  
For GEORGE DAVIS.

## DOCUMENT 15.—No. 75.

*Grain and Lumber Establishment, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Delaware State, Newcastle county.                                                                                                              |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Grain and lumber; water.                                                                                                                       |
| 3. When established; and whether a joint stock concern?                                                                               | 3. In 1831.                                                                                                                                       |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                           | 4. Twelve thousand dollars.                                                                                                                       |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. One thousand two hundred and fifty dollars in all.                                                                                             |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. Two hundred and fifty barrels of flour, at \$5 25; two hundred and fifty bushels of meal, 50 cents per bushel; twenty thousand feet of lumber. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?       | 10. Ten thousand bushels of grain.                                                                                                                |

## DOCUMENT 15.—No. 75—Continued.

| QUESTIONS.                                                                                                             | ANSWERS.                |
|------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?              | 16. Market at the mill. |
| 20. Whether the manufacture is sold by the manufacturer for cash? if on credit, at what credit? if bartered, for what? | 20. Cash.               |

WILLIAM ABBOTT.

## DOCUMENT 15.—No. 76.

*Naamán's creek Grain Mill, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Delaware State, Newcastle county.                                                               |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Grain; water.                                                                                   |
| 3. When established; and whether a joint stock concern?                                                                               | 3. In 1634; private.                                                                               |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                           | 4. Ten thousand dollars.                                                                           |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. Materials, and cash for the purchase of materials and payment of wages, forty thousand dollars. |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. Ten thousand dollars, barrels of wheat and Indian flour.                                        |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?       | 10. Forty thousand bushels of grain.                                                               |
| 12. Number of men, women, and children employed, and average wages of each class?                                                     | 12. Two men, \$25 per month.                                                                       |
| 13. How many hours a day employed; and what portion of the year?                                                                      | 13. Twenty-four hours.                                                                             |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to market?                               | 16. Market at Philadelphia.                                                                        |
| 20. Whether the manufacture is sold by the manufacturer for cash? if on credit, at what credit? if bartered, for what?                | 20. Principally for cash.                                                                          |

## DOCUMENT 16.—No. 77.

*Flour and Corn Meal Mill, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Delaware State, Newcastle county.                                                                  |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Flour and corn meal; water power.                                                                  |
| 3. When established; and whether a joint stock concern?                                                                               | 3. In 1829; private.                                                                                  |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                           | 4. Eight thousand dollars.                                                                            |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. Fifteen thousand bushels of wheat, and five thousand bushels of corn; grists one thousand bushels. |
| 12. Number of men, women, and children employed, and average wages of each class?                                                     | 12. Four men, average wages eighteen dollars per month.                                               |
| 13. How many hours a day employed, and what portion of the year?                                                                      | 13. Twelve hours a day, all the year.                                                                 |
| 15. Number of horses or other animals employed?                                                                                       | 15. Eight horses.                                                                                     |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                             | 16. Philadelphia forty miles, Baltimore seventy miles.                                                |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 19. None.                                                                                             |
| 20. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? if bartered, for what?                | 20. Cash.                                                                                             |

For WM. COOCH,  
WM. COOCH.

## DOCUMENT 15.—No. 78.

*Grist Flour and Corn Mill, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Delaware State, Newcastle county.                                 |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Grist, flour, and corn mill; water.                               |
| 3. When established; and whether a joint stock concern?                                                                               | 3. Established in 1822; private concern.                             |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                           | 4. Five thousand dollars.                                            |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. About two hundred dollars annually.                               |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. Grind about twelve or fifteen thousand bushels of grain annually. |

## DOCUMENT 15.—No. 78.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                | ANSWERS.                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                                                                                                                           | 10. Use from twelve to fifteen thousand bushels of grain; domestic. |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                         | 12. Two men, about \$16 per week.                                   |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                          | 13. Average twelve hours, ten months in the year.                   |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                 | 16. Market in the neighborhood.                                     |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                  | 18. In the neighborhood.                                            |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                  | 19. None exported.                                                  |
| 20. Whether the manufacture is sold by the manufacturer for cash? If on credit, at what credit? if bartered, for what?                                                                                                                                    | 20. Cash.                                                           |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased, and how much in each year from the establishment of the manufactory; and whether the increase has been in the material or the labor, and at what rate? | 21. No increase or decrease.                                        |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                      | 22. From \$4 25 to \$8 per barrel.                                  |

J. H. CANNON.

## DOCUMENT 15.—No. 79.

*Grain Mill, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Delaware, Newcastle county.                                   |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Grain; water power.                                                    |
| 3. When established; and whether a joint stock concern?                                                                               | 3. In 1831; private.                                                      |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                           | 4. Four thousand dollars.                                                 |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. Wages, one hundred and twenty dollars.                                 |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. Flour, 1,250 barrels, average \$5 50; 2,000 barrels corn meal, \$2 50. |

## DOCUMENT 15.—No. 79—Continued.

| QUESTIONS.                                                                                                                      | ANSWERS.                                                           |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products? | 10. Six thousand bushels of wheat, eight thousand bushels of corn. |
| 12. Number of men, women, and children employed, and average wages of each class?                                               | 12. One man.                                                       |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                       | 16. Sent two miles to market.                                      |
| 18. Where are the manufactures consumed?                                                                                        | 18. In the United States.                                          |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                        | 19. None.                                                          |
| 20. Whether the manufacture is sold by the manufacturer for cash? if on credit, at what credit? if bartered, for what?          | 20. Cash.                                                          |

For CYRUS TATMAL,  
CHAS. TATMAL

## DOCUMENT 15.—No. 80.

*Manufactory of Wheat and Corn, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. On Ridley creek, Newcastle county, Delaware.                                               |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Wheat and corn; water.                                                                     |
| 3. When established; and whether a joint stock concern?                                                                               | 3. In 1820; private.                                                                          |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                           | 4. Eight thousand dollars.                                                                    |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. Six thousand dollars in all.                                                               |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. 500 barrels corn meal; 400 bbls. Sent 100 hhds, corn meal; 100 bbls. retailed at the mill. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?       | 10. 14,000 bushels of grain.                                                                  |
| 12. Number of men, women, and children employed, and average wages of each class?                                                     | 12. One man, one boy; man's wages \$12 per month, boy's \$12 per month.                       |
| 13. How many hours a day employed, and what portion of the year?                                                                      | 13. Sixteen hours.                                                                            |
| 15. Number of horses or other animals employed?                                                                                       | 15. Two horses.                                                                               |

## DOCUMENT 15.—No. 80—Continued.

| QUESTIONS.                                                                                                                 | ANSWERS.                                |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                  | 16. Market principally in Philadelphia. |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what? | 20. Cash.                               |

JAMES BUCKINGHAM.

## DOCUMENT 15.—No 81.

*Manufactory of Grain, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                      | ANSWERS.                                                  |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                       | 1. Delaware State, Newcastle county.                      |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                            | 2. Grain; water.                                          |
| 3. When established; and whether a joint stock concern?                                                                         | 3. In 1821; private.                                      |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                     | 4. Two thousand dollars.                                  |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                 | 5. Two thousand dollars; payment of wages \$19 per month. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products? | 10. 11,000 bushels of grain.                              |
| 12. Number of men, women, and children employed, and average wages of each class?                                               | 12. One man; \$19 per month.                              |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                       | 16. Wilmington and neighborhood.                          |
| 18. Where are the manufactures consumed?                                                                                        | 18. In the United States.                                 |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                        | 19. None by me.                                           |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?      | 20. Cash.                                                 |

JACOB SMITH.

BRANDYWINE.



## DOCUMENT 15.—No. 82.

*John Giant's Grain Mill, Newcastle County, State of Delaware.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Delaware, Newcastle county. |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Grain; water power.                  |
| 3. When established; and whether a joint stock concern?                                                                               | 3. About 80 years since.                |
| 4. Capital invested in ground and buildings?                                                                                          | 4. \$3,000.                             |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. 12,000 bushels of grain.             |

## DOCUMENT 15.—No. 83.

*Wm. Gibson's Grist and Merchant Flour Mill, Ridley Creek, Newcastle County, State of Delaware.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Delaware, Newcastle county.                                                                        |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Grist and merchant flour mill; water power.                                                                 |
| 3. When established; and whether a joint stock concern?                                                                               | 3. In 1829; private.                                                                                           |
| 4. Capital invested in ground and buildings?                                                                                          | 4. Capital in ground and buildings, &c., &c., \$6,300.                                                         |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. Grain manufactured, 20,000 bushels; cash for the purchase of materials and payment of wages about \$20,000. |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. 3,000 barrels of flour, and 100 barrels kiln dried corn meal per annum.                                     |
| 12. Number of men, women, and children employed, and average wages of each class?                                                     | 12. 3 men; average wages \$18 per month.                                                                       |
| 13. How many hours a day employed, and what portion of the year?                                                                      | 13. 17 hours per day; whole year.                                                                              |
| 15. Number of horses or other animals employed?                                                                                       | 15. 3 horses.                                                                                                  |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                             | 16. Market at Philadelphia, 40 miles.                                                                          |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 19. Export none.                                                                                               |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 20. Part cash, and a part on a credit of from 30 days to 4 months.                                             |

## DOCUMENT 15.—No. 84.

*Samuel Richardson's Flour Manufactory, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Delaware State, New Castle county.                                                                                        |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Flour mill; water power.                                                                                                  |
| 3. When established; and whether a joint stock concern?                                                                               | 3. Seventy years; private.                                                                                                   |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                           | 4. About two thousand dollars.                                                                                               |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. About 11,000 bushels of grain manufactured; cash for the purchase of materials \$ 500; payment of wages \$ 300 per annum. |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. Five hundred barrels flour for sale.                                                                                      |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?       | 10. Quantity of raw materials 11,000 bushels grain, domestic.                                                                |
| 12. Number of men, women, and children employed, and average wages of each class?                                                     | 12. Two men, one boy; average wages \$ 150 per annum.                                                                        |
| 13. How many hours a day employed; and what portion of the year?                                                                      | 13. Average seven hours per day, per year.                                                                                   |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                             | 16. Sent one and a half miles to market.                                                                                     |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?            | 17. No foreign competition.                                                                                                  |
| 18. Where are the manufactures consumed?                                                                                              | 18. In the surrounding country.                                                                                              |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 19. None.                                                                                                                    |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 20. Cash.                                                                                                                    |

## DOCUMENT 15.—No. 85.

*Flour Manufactory, Newcastle County, Delaware.*

| QUESTIONS.                                                                           | ANSWERS.                             |
|--------------------------------------------------------------------------------------|--------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Delaware State, Newcastle county. |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. Flour mill; water power.          |
| 3. When established; and whether a joint stock concern?                              | 3. In 1837; private concern.         |
| 4. Capital invested in ground and buildings and water power and machinery?           | 4. Eight thousand dollars.           |

## DOCUMENT 15.—No. 85—Continued.

| QUESTIONS.                                                                                                                            | ANSWERS.                        |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. 12,600 bushels grain.        |
| 12. Number of men, women and children employed, and average wages of each class?                                                      | 12. Four men, \$ 18 per month.  |
| 13. How many hours a day employed; and what portion of the year?                                                                      | 13. Twelve hours, all the year. |
| 15. Number of horses or other animals employed?                                                                                       | 15. Five horses.                |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                             | 16. Market at home.             |
| 18. Where are the manufactures consumed?                                                                                              | 18. In the country around.      |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 19. None.                       |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 20. Cash.                       |

WILLIAM KELLEY.

## DOCUMENT 15.—No. 86.

*Manufactory of Flour, &c. Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                 | ANSWERS.                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                  | 1. Delaware State, New Castle county.                                                                  |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                       | 2. Wheat flour, rye, corn, hulled and peal barley; water power.                                        |
| 3. When established; and whether a joint stock concern?                                                                    | 3. 1832; private concern.                                                                              |
| 4. Capital invested in ground and buildings; and water power and machinery?                                                | 4. Ten thousand dollars.                                                                               |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                            | 5. Average amount in materials, cash for the purchase of materials \$ 50,000; payment of wages \$ 850. |
| 12. Number of men, women, and children employed, and average wages of each class?                                          | 12. Four men at \$ 20 per month.                                                                       |
| 13. How many hours a day employed, and what portion of the year?                                                           | 13. Seventeen hours a day.                                                                             |
| 15. Number of horses or other animals employed?                                                                            | 15. Two horses.                                                                                        |
| 18. Where are the manufactures consumed?                                                                                   | 18. In the United States.                                                                              |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                   | 19. Export none.                                                                                       |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what? | 20. \$ 35,000 cash, and \$ 15,000 credit.                                                              |

## DOCUMENT 15.—No. 86—Continued.

| QUESTIONS.                                                                                                                                    | ANSWERS.                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?    | 23. The present duty on barley is sufficient, but should not be less. |
| 27. What amount of the agricultural products of the country is consumed in your establishment, and what amount of other domestic productions? | 27. \$ 300 per annum for agricultural products.                       |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                | 30. In agriculture.                                                   |

A. FOUNTAIN.

## DOCUMENT 15.—No. 87.

*Flour Mill and Saw Mill, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Delaware State, New Castle county.                                                                    |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Flour mill and saw mill.                                                                              |
| 3. When established; and whether a joint stock concern?                                                                               | 3. In 1829; private concern.                                                                             |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                           | 4. Four thousand dollars.                                                                                |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. \$ 20; wages \$ 125 per annum.                                                                        |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. 11,000 bushels of grain; wheat, corn, rye, huckwheat; saw about 100,000 feet of boards and scantling. |
| 12. Number of men, women, and children employed, and average wages of each class?                                                     | 12. Two men and one boy; \$ 125 dollars per annum for each man.                                          |
| 13. How many hours a day employed, and what portion of the year?                                                                      | 13. Twelve hours.                                                                                        |
| 15. Number of horses or other animals employed?                                                                                       | 15. One horse.                                                                                           |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                             | 16. Market at Wilmington.                                                                                |
| 18. Where are the manufactures consumed?                                                                                              | 18. In the country around.                                                                               |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 19. None.                                                                                                |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 20. Cash.                                                                                                |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                  | 22. \$ 4.50 to \$ 6 per barrel.                                                                          |

SPRINGER McDANIEL.

## DOCUMENT 15.—No. 88.

*Manufacture of Flour and Corn Meal, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                        |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Delaware, Newcastle county.                  |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Flour and corn meal; water power.            |
| 3. When established, and whether a joint stock concern?                                                                               | 3. Thirty years ago; private.                   |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                           | 4. Five thousand dollars.                       |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. 11,000 bushels a year of all kinds of grain. |
| 12. Number of men, women, and children employed, and average wages of each class?                                                     | 12. Three men; \$16 per month.                  |
| 13. How many hours a day employed, and what portion of the year?                                                                      | 13. Twelve hours.                               |
| 15. Number of horses or other animals employed?                                                                                       | 15. Six horses.                                 |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                             | 16. Market at home.                             |
| 18. Where are the manufactures consumed?                                                                                              | 18. In the country around.                      |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                              | 19. None exported.                              |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?            | 20. Cash.                                       |

HENRY BATTEN.

## DOCUMENT 15.—No. 89.

*Manufacture of Flour and Corn Meal, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Delaware, Newcastle county.                            |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Flour and corn meal; water power.                      |
| 3. When established; and whether a joint stock concern?                                                                               | 3. In 1828; private.                                      |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                           | 4. Two thousand dollars.                                  |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. About 12,000 bushels of grain of all kinds, per annum. |
| 12. Number of men, women, and children employed, and average wages of each class?                                                     | 12. Two hands; \$23 per month.                            |

## DOCUMENT 15.—No. 89—Continued.

| QUESTIONS.                                                                                                | ANSWERS.                   |
|-----------------------------------------------------------------------------------------------------------|----------------------------|
| 13. How many hours a day employed, and what portion of the year?                                          | 13. Twelve hours.          |
| 15. Number of horses or other animals employed?                                                           | 15. Three horses.          |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market? | 16. Market at home.        |
| 18. Where are the manufactures consumed?                                                                  | 18. In the country around. |

WILLIAM BATTEN.

## DOCUMENT 15.—No. 90.

*Manufacture of Flour and Meal, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                      | ANSWERS.                                            |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                       | 1. Delaware State, Newcastle county.                |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                            | 2. Flour and meal; water power.                     |
| 3. When established; and whether a joint stock concern?                                                                         | 3. Fifty years since; private concern.              |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                     | 4. About three thousand dollars.                    |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                 | 5. Wages three hundred dollars.                     |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products? | 10. 15,000 bushels of grain of all kinds per annum. |
| 12. Number of men, women and children employed, and average wages of each class?                                                | 12. Two men; wages \$ 150 each per annum.           |
| 13. How many hours a day employed, and what portion of the year?                                                                | 13. Ten hours, all the year.                        |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                       | 16. Market at Wilmington and Philadelphia.          |
| 18. Where are the manufactures consumed?                                                                                        | 18. In the United States.                           |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                       | 19. None.                                           |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?      | 20. Cash.                                           |

JOHN &amp; JOSHUA HARLAN.

*Tabular Statement for the Millers and Manufacturers of Quer.*

| Date of establishment, &c.      | Names of manufacturers.                                               | Capital invested in ground, buildings, water power, and machinery. | Average amount in materials, cash for the purchase of materials and payment of wages. | Amount of articles annually manuf'd. | Kinds.                                                 |
|---------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------|
| 1837; water pow'r; con. private | George Platt, manufacturer of flour, meal, and quercitron bark,       | \$6,000                                                            | \$1,300                                                                               | \$23,850                             | Flour, meal, & quer. bark,                             |
| 1832; water power               | George B. Meeteer, manufacturer of grain, plaister, bark, and lumber, | 4,000                                                              | -                                                                                     | -                                    | -                                                      |
| 1806; water pow'r, con. private | Samuel Eckels, grinder grists, -<br>John C. Phillips, miller, -       | 2,800<br>8,000                                                     | -<br>18,432                                                                           | 9,000<br>18,000                      | -<br>-                                                 |
| 1829; water power; private      | Samuel Stroud, miller, -                                              | 12,000                                                             | 26,000                                                                                | 30,100                               | -                                                      |
| 1828; water pow'r; private      | Bayard Grubb, miller, -                                               | 4,000                                                              | 430                                                                                   | 10,050                               | Flour,                                                 |
| 1831; water pow'r; private      | George Davis, miller, -                                               | 1,000                                                              | 144w.                                                                                 | -                                    | -                                                      |
| 1831; water pow'r; private.     | Wm. Abbott, manufacturer of grain and lumber,                         | 12,000                                                             | 1,250                                                                                 | 2,562                                | Flour, meal, & lumber,                                 |
| 1834; water; private            | Naaman's Creek Mills, grain, -                                        | 10,000                                                             | 40,000                                                                                | 30,000                               | Flour & meal,                                          |
| 1831; water; private            | Cyrus Tatman, miller, -                                               | 4,000                                                              | 120w.                                                                                 | 11,875                               | Flour & meal,                                          |
| 1820; water; private            | James Buckingham, miller, -                                           | 8,000                                                              | 6,000                                                                                 | 10,500                               | Flour & meal,                                          |
| 1821; water; private            | Jacob Smith, miller, -                                                | 2,000                                                              | 2,228                                                                                 | 8,250                                | Flour & meal,                                          |
| 1752; do.                       | John Ginn, miller, -                                                  | 3,000                                                              | Not stated                                                                            | 9,000                                | Flour & meal,                                          |
| 1829; do.                       | Wm. Atkins, miller, -                                                 | 6,300                                                              | 20,000                                                                                | 15,000                               | Flour & meal,                                          |
| 1762; do.                       | Samuel Richardson, miller, -                                          | 2,000                                                              | 800                                                                                   | 8,250                                | Flour & meal,                                          |
| 1827; do.                       | Wm. Kelley, miller, -                                                 | 8,000                                                              | Not stated                                                                            | 9,000                                | Flour & meal,                                          |
| 1832; do.                       | Andrew Fountain, miller, -                                            | 10,000                                                             | 50,850                                                                                | Nt. stated                           | Fr. ml. & hul. b'y                                     |
| 1829; do.                       | Wm. Cooch, miller, -                                                  | 8,000                                                              | -                                                                                     | 19,000                               | Flour & meal,                                          |
| 1822; do.                       | John H. Cannon, miller, -                                             | 5,000                                                              | 200                                                                                   | 10,125                               | Flour & meal,                                          |
| 1829; do.                       | Springer McDaniel, miller, -                                          | 4,000                                                              | 145                                                                                   | 8,250                                | Flour & meal,                                          |
| 1802; do.                       | Henry Batten, miller, -                                               | 5,000                                                              | -                                                                                     | 8,250                                | Flour & meal,                                          |
| 1828; do.                       | Wm. Batten, miller, -                                                 | 2,000                                                              | -                                                                                     | 9,000                                | Flour & meal,                                          |
| 1760; water; private            | John and Joshua Harlan, millers,                                      | 3,000                                                              | 300w.                                                                                 | 12,500                               | Flour & meal,                                          |
| Water; private                  | James Price and Sons, millers,                                        | 100,000                                                            | -                                                                                     | 196,500                              | Flour & meal,                                          |
| Water; private                  | Samuel Bailey, flour, meal, lumber, quercitron bark, and cooping,     | 25,000                                                             | -                                                                                     | 21,080                               | Flour, m'l, lumber, quer. bk. mill feed, blk. and hhd. |
| Estimate for 1831.              | Aggregate, -                                                          | \$155,100                                                          | \$168,099                                                                             | \$485,692                            |                                                        |

No. 91.

*Iron Bark, in Newcastle County, State of Delaware.*

| Raw materials.   | Quantity.  |         | Prices at which the manufactures have been sold since the establishment. | Number of men, women, and children employed. | Wages of men per month. | Wages of children per month. | Number of horses, &c. | Value. |
|------------------|------------|---------|--------------------------------------------------------------------------|----------------------------------------------|-------------------------|------------------------------|-----------------------|--------|
| -                | -          | -       | -                                                                        | 6                                            | \$20                    |                              |                       |        |
| -                | -          | -       | -                                                                        | 6                                            | 30                      | -                            | 6-2 yoke ox.          |        |
| Wheat, all sorts | 12,000     | bushels |                                                                          |                                              |                         |                              |                       |        |
| Wheat            | 10,000     | do      | Flour, \$5 25                                                            | 2                                            | 18                      | -                            | 5                     |        |
| Wheat            | 10,000     | do      | Meal, 2 50                                                               |                                              |                         |                              |                       |        |
| Wheat            | 10,000     | do      | Flour, 5 25 p. bl.                                                       | 2                                            | 20                      | -                            | 4-4 yoke ox.          |        |
| Wheat            | 22,000     | do      | Meal, 14 p. hhd.                                                         |                                              |                         |                              |                       |        |
| Wheat            | 10,000     | do      | -                                                                        | 1                                            | 20                      |                              |                       |        |
| Grain            | 1,000      | do      | -                                                                        | 1                                            | 12                      |                              |                       |        |
| Grain            | 10,000     | do      | Flour, 5 25<br>Meal, 50 p. bl.                                           |                                              |                         |                              |                       |        |
| Grain            | 40,000     | do      | Not stated                                                               | 2                                            | 25                      |                              |                       |        |
| Grain            | 14,000     | do      | Flour, 5 50<br>Meal, 2 50                                                | 1                                            |                         |                              |                       |        |
| Grain            | 14,000     | do      | -                                                                        | 2                                            | 20                      | \$12                         | 2                     |        |
| Grain            | 11,000     | do      | -                                                                        | 1                                            | 19                      |                              |                       |        |
| Grain            | 12,000     | do      | -                                                                        |                                              |                         |                              |                       |        |
| Grain            | 20,000     | do      | -                                                                        | 3                                            | 18                      |                              |                       |        |
| Grain            | 11,000     | do      | -                                                                        | 3                                            | 17                      | 1                            |                       |        |
| Grain            | 12,000     | do      | -                                                                        | 4                                            | 18                      |                              | 5                     |        |
| Grain            | Not stated |         | -                                                                        | 4                                            | 20                      | -                            | 2                     |        |
| Grain            | 21,000     | do      | -                                                                        | 4                                            | 18                      | -                            | 8                     | \$300  |
| Grain            | 13,500     | do      | -                                                                        | 2                                            | 16                      |                              |                       |        |
| Grain            | 11,000     | do      | -                                                                        | 2                                            | 10                      |                              |                       |        |
| Grain            | 11,000     | do      | -                                                                        | 3                                            | 16                      |                              | 6                     |        |
| Grain            | 12,000     | do      | -                                                                        | 2                                            | 23                      |                              | 3                     |        |
| Grain            | 15,000     | do      | -                                                                        | 2                                            | 12 50                   |                              |                       |        |
| Grain            | 250,000    | do      | -                                                                        | 50                                           |                         |                              |                       |        |
| Grain            | 37,300     | do      | -                                                                        | 21                                           |                         |                              |                       |        |
| -                | 589,800    | bushels | -                                                                        | 124                                          | -                       |                              | 41-6 yoke ox.         | \$300  |



## DELAWARE MANUFACTURES.—REPORT J. GILPIN.

## DOCUMENT 16.—No. 1.

To the Hon. LOUIS M'LANE,

*Secretary of the Treasury of the United States, &c. &c.*

SIR: I had the honor to receive your circular letter of the 7th of February, requesting me to collect information of the manufactures of this State, in conformity to the resolutions of Congress, and sundry queries annexed. In consequence of which, I immediately prepared to execute the duty, and have been much engaged in it since. Two circumstances have materially retarded it; first, the bad state of the roads and weather during an uncommonly inclement season; and, secondly, the difficulty of obtaining the returns which have required much personal attention; and I may add, that though this State is small, the extent to go over, with the requisite attention, is considerable. Another fortnight would have done much in giving accuracy to the business, and in enlarging it, but since the demands of the Legislature require it as it is, these circumstances are mentioned merely to apologize for the unavoidable want of perfection with which it is attended.

The State of Delaware comprises, as is well known, but three counties, with an area of 1,400 square miles, and a population of 57,000 white, and 19,000 black inhabitants. The State has very little commerce, its productions being sent to Baltimore, New York, and Philadelphia—chiefly the latter. Manufactures have at all times existed in it, and have been diffused through the State, though in the two southern counties they are chiefly household or domestic; but the northern part of the State, particularly the section of Newcastle county north of Christiana creek, is, and has been for more than half a century, one of the most flourishing manufacturing districts in the United States, owing to its great command of water power upon or near to navigation. Independent of these manufactures, the State is largely agricultural, particularly in wheat and Indian corn, which constitute its staple manufacture; and there is, besides, a very flourishing agriculture in other articles supported by, and dependant on, its manufactures.

Early after receiving your circular, I transmitted the circular No. 1 to persons of the best general knowledge in the respective counties, to obtain information of the manufactures, upon which, the circular No. 2, containing the queries, was sent to the manufacturers themselves, and persons employed to collect their replies; as their replies, with many other statements and letters constitute the documents on the subject, they are transmitted herewith, and of course will speak for themselves, especially as to details; but since a condensed view of the subject is proper and requested, I shall give it corrected as far as time has admitted by local knowledge and personal investigation.

It would be extremely desirable that the returns should contain the most perfect estimate of the value of the manufactures, especially as the object of the inquiry is to ascertain the protection they require from the Government: the profit or loss of them is important as to that protection to the individuals who conduct them, as well as to the State of which they constitute an important part of its public wealth; but to ascertain their value with the precision which would be desirable, has not been altogether so easy; for, independent of disclosures of profits, (always a circumstance of delicacy,) many of the manufacturers are really in a situation of so much struggle against past or present difficulties, and the uncertain prospect before them as to public measures, that they find it difficult, if not impossible, to furnish them: more time would certainly have given much more clearness on the subject: as it is I shall mention what has been furnished, with great candor, by many of the manufacturers, and the best general view I have been able to form.

In any estimate we may make of the value of the manufactures, it seems correct to observe, that where, as in many cases, the capital, labor, and raw material, are all furnished within the State, the whole product of the manufacture may be taken as profit to it; in case either are derived from abroad, they are to be deducted, which principally applies to raw materials, and where these are not derived from foreign sources, they mingle in the profit of the United States: in this respect the amount of profit to the State is wholly distinct from that of individuals, which depends on the difference between the actual cost and product to them.

The principal manufactures of the State may be seen by the annexed arranged list; them, but touching first, sir, on those which are more immediately designated in the resolution of Congress, I shall proceed to observe:

That sugar is not made in the State, nor is hemp either grown or manufactured in it, or flax, except for domestic purposes.

Of salt, there is a small manufacture on the sea-coast, by boiling or evaporating salt water in pans. I have not been able to procure an exact return of it, but it is described as a small

concern, conducted by poor people, and sold in the neighborhood, to the amount of about 10,000 bushels annually, and perhaps \$5,000 which seems to be a clear profit to the State.

Of iron, there are native ores in several parts of the State, and there were formerly works in Newcastle county; a considerable export of the ore is made to New Jersey from Sussex county, in which are the only mines in the State now worked, and the only furnace is that of Col. William D. Waples: of this a very accurate account is given in his report, by which it appears that there is a capital of about 40,000 invested in it, that it employs about 70 persons, and produces 600 tons of iron of the value of about \$26,000; the whole of which, as it is produced from domestic materials, may be taken as a net profit to the State. Col. Waples states the prices of his iron to have fallen considerably within a few years, and that the profit is now not more than 6 to 10 per cent.

There are two forges in the vicinity of this furnace, which probably convert a part of its product into bar iron for the use of the neighborhood, but I have no returns of them.

The other manufactures of iron, except common smith's shops, are chiefly in the neighborhood of Wilmington, not dependant on the above, as they derive their supplies chiefly from Pennsylvania or elsewhere. They are as follows:

One mill of Mr. Allen Wood for rolling and making shovels, spades, saws, &c., this employs a capital of about \$15,000; 80 tons of iron and steel; 10 men; and the product is \$16,000, derived from American materials, with a profit of 15 to 20 per cent. on the moneyed capital.

There are two foundries of castings for machinery and country uses in Wilmington, the united capitals of which are perhaps \$30,000; their labor, 35 persons, and their product about \$50,000, all which would be a profit to the State, but, that, of about 450 tons of pig iron which they consume, 120 is of foreign ore: this may, therefore, reduce the State value to \$45,000; the rate of profit on this business is not stated, but it appears reasonably profitable, perhaps 10 or 12 per cent.

There are six manufactories for machinery, of which two only have given returns; from them, it is probable, they employ altogether a capital of about \$60,000; about 100 men and boys, and about 200 tons of iron, and produce the value of \$75,000, chiefly from American materials; the profit on these manufactures is stated to be 8 per cent.

The whole of the iron manufacture in the State appears to employ a capital of about \$135,000, about 200 men and boys, and to produce annually the value of \$160,000.

Of the cotton manufacture, begun in 1794, little progress was made till the late war, during which, nearly all the present establishments were formed, with many that are now extinct.

At present there are in the State about fifteen establishments, some of them mixed with wool. The returns from few of them are made with exactness, but it is pretty well ascertained that they operate with about 25,000 spindles, a capital of \$500,000 in buildings and machinery, and \$150,000 of money, making altogether \$650,000; 700 persons; consuming 1,500,000 lbs. of cotton, and producing 1,350,000 lbs. of yarn, of the value of \$310,000.

Of the profits of this business, it must be observed, that it has been subject to such extreme fluctuations that no correct estimate can be made for a considerable length of time, but it is candidly admitted by some of the most respectable manufacturers, that, for the last three years, it has been 10 to 12 per cent., with a prospect of decline, however, at present, and certainly so if the tariff is reduced; upon fine yarns, that is No. 40 and upwards, it is said not to be a protection, as they are still imported lower than they can be made.

Of the woollen manufacture, there were some large establishments during the war which have gone down. It is now supported by two most respectable manufactories of Charles S. Dupont and William Young, esqs., on the Brandywine, with the most perfect machinery, skill, and economy: at both these, cloths of the best quality have been made, and they are continued, particularly by Mr. Dupont. Mr. Young's and Messrs. Hilton's manufactories have been of late more devoted to the mixed article of wool and cotton, called sattinets; and in Kent county the article of kerseys is united with cassinets. Of the other manufactures mentioned in the list, many of them are for preparing the wool, and fulling, for household manufactures.

As all the returns of this manufacture have not been made, it is not easy to form a condensed view of it further than those of Messrs. Dupont, Young, Hilton, and those from Smyrna will show. It is probable, however, that this manufacture employs, independent of the cotton connected with it, \$150,000 capital, 150 workmen, consumes 130,000 lbs. of wool, and produces \$120,000 of manufactured articles, and that 80 per cent. of the raw material is derived from the United States. Of this manufacture, in the main, it may, I believe, be justly said, that it pays very little profit, and is in a languishing situation, which is attributed to two causes, first, the number of light English cloths brought in and sold at auction; and secondly, the duty on the low priced foreign wool, which otherwise could be brought in and manufactured to advantage.

The manufacture of paper is one of the oldest in the country, having been established for fifty years, and it is carried to great perfection, for all kinds of fine writing and drawing paper, on the Brandywine, where the revolving machinery was first introduced by Mr. Thomas Gilpin, nearly twenty years ago: the return of this is given with great accuracy, by which it will appear, that it employs a capital of \$150,000; 20 men, 10 boys, and 50 women and children, altogether 80, and supports a population of 200 persons; that it manufactures materials of 100 tons, and the value of \$26,000, and produces \$60,000 annually, the whole of which, it is to be observed, is made of a refuse article of society, altogether American.

Besides this, there exists in the State, the respectable manufactory of Messrs. Meeteer, near Newark, and two others on a smaller scale; the aggregate of the manufacture may be estimated at \$200,000, its labor 130, and its product \$100,000, which, as it is wholly of American material, may be taken as a clear profit to the State. The profit of the manufacture very little exceeds an interest of 6 per cent. on the whole capital vested in it, and it is one of those which has been so long established as to be conducted at prices so moderate, that it is not affected by the foreign imports of good paper; but it has been at times extremely hurt by paper of low quality, brought in and sold at auction, for which it is the protecting duties are necessary to it.

The powder manufactures of this State are the largest of the kind in the United States, particularly that of Messrs. Dupont, on the Brandywine, not only in extent, but in every improvement that can contribute to its goodness in quality; the consequence of which is, that it has supplanted the demand for foreign powder for all domestic purposes. Mr. Dupont's own report on the subject gives all the detail of it that is necessary, by which it will be seen that it employs a capital of \$180,000, occupies 140 persons, and produces 850,000 lbs. of powder of the value of \$170,000.

The second and only other manufacture of powder in the State, is that of Mr. Gareché, the details of which are also given in his report; this manufacture, it is to be observed, is by steam; the two establishments together occupy a capital of \$238,000, employ 168 men, and manufacture 1,100,000 lbs. of powder, worth \$250,000.

Of these manufactures, however, it is to be observed, that the great articles of sulphur and saltpetre are largely imported from abroad, that the profit to the State consists chiefly in the labor, which may be estimated at \$140,000. The private profit is stated by Mr. Gareché to be from 12 to 15 per cent. on the raw material, when explosions do not happen, to which this manufacture is particularly exposed. Like paper, it has supplanted the foreign article of good quality, but has been greatly injured by old or inferior powder brought in and sold at auction, against which it requires the protecting duties.

The leather manufacture is a very old one in the State, founded on its own materials, but for many years past it has been extended to foreign hides; it was more extensive formerly in Newcastle county, than at present, owing to the high price of bark, but it has, on that account, increased in Kent and Sussex. The return of Mr. Isaac Jackson furnishes very clear ideas of it; it seems probable that there are about 30 tanneries in the State, that they employ a capital altogether of \$150,000, 120 persons, and produce \$150,000, of which, however, at least \$50,000 may be deducted for foreign hides, leaving a profit of \$100,000 to the State.

Of bark, of the black oak or quercitron, there are about 20 mills in the State for grinding it for exportation, the capital of which may be reckoned at \$50,000, the labor at 120 men, and the product \$80,000, all which is a clear profit to the State.

The manufacture of flour may be considered as the staple, or almost the indigenous one of the State. Of this, the 12 mills at Brandywine bridge may be considered as the first class, manufacturing only for merchant work, and the details, are correctly given; 10 more may be taken as a second class for merchant and grist work united, the two classes together employ a capital of \$600,000, and about 70 men; manufacture 480,000 bushels of wheat, and 250,000 bushels of corn, and produce 96,000 barrels of flour, and 55,000 of Indian meal, value together \$816,000; of this a considerable part of the raw material is derived from the neighboring States, but the whole is a fair product of the United States, which may be termed an agricultural manufacture, necessary to put the produce of the soil into a state for exportation. Besides these, there are, perhaps, 50 mills in the State, of a third class, for grist or grinding the wheat and corn of the country for domestic use; the capital of which may be reckoned at \$100,000, the persons employed at 100, and the product at \$73,000, but as this product is consumed at home, the object in enumerating these mills is chiefly to show the amount of their manufacturing capital and labor.

There are, in the same manner, about 40 saw mills for the manufacture of timber, etc. for domestic use, which employ a capital of \$40,000, and 80 men; altogether, it is probable they produce to the value of \$40,000, though there is very little data for exactness respecting them, nor is it of importance.

There are two manufactures of sauff operating upon tobacco of the United States, but the returns of them are two inefficient to notice them, as well as two or three oil mills for flax-seed, confined to country use.

Of the common trades, time has not admitted estimates to be formed; but having thus mentioned all that can be reached of the principal manufactures of the State, with such remarks as have seemed necessary respecting their profits, and the duties upon them, it only remains to bring them into an aggregate form, which I have done, under the three heads of capital, labor, and product, as follows:

|           | Capital.    | Labor.      | Product.   |
|-----------|-------------|-------------|------------|
| Flour     | \$ 600,000  | 70 men      | \$ 818,000 |
| Iron      | 135,000     | 200 do      | 160,000    |
| Cotton    | 650,000     | 700 persons | 310,000    |
| Wool      | 150,000     | 150 do      | 120,000    |
| Paper     | 200,000     | 130 do      | 100,000    |
| Gunpowder | 238,000     | 168 men     | 250,000    |
| Leather   | 150,000     | 120 do      | 150,000    |
| Oak bark  | 50,000      | 120 do      | 80,000     |
| Salt      | 2,000       | 10 do       | 5,000      |
|           | \$2,175,000 | 1,668       | 1,991,000  |

The number of persons supported by these manufactures may be taken as at least 3 to 1 of those employed, or 5,000.

The flour manufacture consumes, of agricultural produce, 480,000 bushels wheat, and 250,000 bushels of corn, value \$622,000.

The cotton manufacture consumes 1,500,000 lbs. of raw cotton: in the estimate of this manufacture, I have included the product of the power looms employed.

Having submitted, in a detached form, what has occurred to me on the general subject of the tariff and labor of the country, I am not aware of any other part of the duty required of me being unattended to, as far as time has admitted, and I beg leave to subscribe myself, sir, with the highest respect,

Your obedient humble servant,  
JOS. GILPIN.

#### ARRANGED LIST OF THE DELAWARE MANUFACTORIES.

##### *Proprietors of Flour Mills.*

*1st class Merchant Mills.*—James Price and Sons, James Canby and Sons, Samuel Poole, Samuel Shipley, Samuel Bailey.

*2d class Merchant and Grist Mills.*—Caleb Churchman, James Buckingham, William Adkins, G. C. Phillips, George Platt, Samuel Stroud, Chamberlain, William Cooch, John Harlan.

*3d class Grist Mills.*—B. Grubb, Henry Webster, George Davis, Jacob Smith, John C. Farra, Jones, Dupont, Kirk, Richardson, Isaac Gregg, Springer M'Daniel, Joshua Lobb, Andrew Reynolds, Johnson, England, Rankin, Crawford, Kelly, Janvier, Meeteer, Bay, Samuel Thomas, John Carnan, John Grimm, Samuel L. Eccles, Henry Walker, Ira Lyons, Duck Creek Mill, N. Ridgely, Ezekiel Cowgill, Howell, Melliston, Mifflin, Fishers, Bowmill, Virdin, Cooper, Douglass, Bean, Milford Mill.

##### *Proprietors of Saw Mills.*

Abner Cloud, J. and E. Sharpley, John Beeson, Jacob Smith, George Craig & Co., William Atkins, Springer M'Daniel, Bishop, Barker, Joshua Lobb, J. C. Phillips, George Platt, Johnson, Samuel Stroud, M'Beth, Vandegrift, Ira Lyons, N. Ridgely, Ezekiel Cowgill, Lewis, Bowmill, Virdin, Cooper, Dover, Bean, Smith, Alabama.

##### *Proprietors of Cotton.*

Garret and Pusey, Joseph Bancroft, Breck and Swift, William Hilton, Hutchinson, William Young, Harry Connelly, John Connelly, Mitchell and Quin, Marshall, Jacob Pusey, Stafford, Trump, Alexander V. Murphy, Richard Hoarding.

##### *Proprietors of Woollen.*

Charles J. Dupont, Sacriste, William Young, Henry Clarke, Samuel P. Johnson, C. J. Dougherty, Jaspard Tranchant, Jacob Vandegrift, Alexander V. Murphy, Richard Hoald-

ing, Ezekiel Cowgill, Charles Stedham, Derrick Bernard, Simon K. Wilson, Arthur Milby, Samuel Painter, Theodore Mitchell, Caleb Ross. Fulling mills—S. P. Johnson, Alexander V. Murphy, Richard Hoalding.

*Proprietors of Iron.*

Furnace—William D. Waples. Forge—Josiah Polk, Solomon Prettyman. Rolling mill—Allen Wood. Foundries—Mahlon Betts, Bowmill, Roe. Machine makers—Reeves and Wood, George Hodgson, Jacob Alrich and Son, M'Clary and Bush, Thomas Hill, Walker and Pinson, Wagstaffe.

*Proprietors of Paper.*

J. and T. Gilpin, now the Brandywine Manufacturing Company, William Meeteer & Co., John C. Farra, Falls.

*Proprietors of Gunpowder.*

E. J. Dupont & Co., Eleutherian mills, G. P. Gareschie.

*Proprietors of Tanneries, Leather.*

John and A. Peterson, Green and Scott, James Green, Thomas Clark, Benjamin Polk, Peter M. Darby, William D. Waples, Aaron Marvel, William D. Cooper, Gov. Hazzard, Nathan Vickers, John Richards, William Tunnell, William Russel, Robert Houston W., Robert Houston R., William Dunning.

*Proprietors of Bark Mills.*

Benjamin Webb, Staples and Craig, George Platt, Rankin, Alexander V. Murphy, R. A. Crawford, George Stedham, Pennywell and Sipple, Charles Stedham, Joseph Smithers, Joseph C. Clunn, Charles Hannoway, Simon K. Wilson, Joseph Maull, Gideon Waples, Solomon Prettyman, Stephen Houston, George Craig & Co., James Walker, Samuel Stroud.

DOCUMENT 16.—No. 2.

LIST OF DELAWARE MANUFACTORIES.

*Newcastle County.*

|                |   |                       |   |   |                           |
|----------------|---|-----------------------|---|---|---------------------------|
| Nasman's Creek | - | Caleb Churchman       | - | - | Merchant flour-mill.      |
|                |   | Bayard Grubb          | - | - | Grist mill.               |
|                |   | George Bush           | - | - | Oil mill; not in use.     |
|                |   | Abner Cloud           | - | - | Saw mill.                 |
| Shellpot Creek | - | Henry Webster         | - | - | Grist mill.               |
|                |   | Jacob & Esau Sharpley | - | - | Saw mill.                 |
|                |   |                       |   |   | Wool carding; not in use. |
|                |   | George Davis          | - | - | Grist mill.               |
| Stoney Run     | - | John Beeson           | - | - | Saw mill.                 |
| Beaver Run     | - | Jacob Smith           | - | - | Grist mill.               |
|                |   |                       |   |   | Saw mill.                 |
|                |   | John C. Farra         | - | - | Grist mill.               |
|                |   | — Sacriste            | - | - | Woollen manufactory.      |
| Brandywine     | - | James Price & Sons    | - | - | Five merchant flour.      |
|                |   | James Canby & Sons    | - | - | Four do.                  |
|                |   | Samuel Poole          | - | - | Two do.                   |
|                |   | Samuel Shipley        | - | - | One do.                   |
|                |   | Garret & Pusey        | - | - | Cotton spinning mill.     |
|                |   | Reeves & Wood         | - | - | Machine making.           |
|                |   | Benjamin Webb         | - | - | Bark mill; not in use.    |
|                |   | Benjamin Ferriss      | - | - | Cotton mill; abandoned.   |
|                |   | — Jones               | - | - | Snuff mill.               |
|                |   |                       |   |   | Grist-mill.               |

## DOCUMENT 16.—No. 2—LIST OF DELAWARE MANUFACTORIES.

## Newcastle County—Continued.

|                  |                             |                              |
|------------------|-----------------------------|------------------------------|
| Brandywine       | J. & T. Gilpin, now Brandy- | Paper manufactory.           |
|                  | wine Manufacturing Co.      | Cotton spinning.             |
|                  | Joseph Bancroft             | Do.                          |
|                  | Breck & Swift               | Cotton and wool manufactory. |
|                  | William Hilton & Son        | Machine maker.               |
|                  | George Hodgson              | Grist mill.                  |
|                  | E. J. Dupont & Kirk         | Cotton spinning.             |
|                  | Do & Hutchinson             | Gunpowder manufactory.       |
|                  | E. J. Dupont & Co.          | Woollen manufactory.         |
|                  | E. J. Dupont                | Cotton and woollen.          |
| Wilmington       | W. Young                    | Gunpowder manufactory.       |
|                  | J. P. Garesche              | Iron foundry.                |
|                  | Mahlon Betts                | Do.                          |
|                  | Jacob Alrichs               | Machine maker.               |
| Mill Creek       | McClary & Bush              | Do.                          |
|                  | Do.                         | Do.                          |
|                  | Richardson                  | Grist mill.                  |
|                  | Samuel Bailey               | Merchant mill.               |
| Stanton          | George Craig & Co.          | Saw mill.                    |
|                  | Stapler & Craig             | Bark mill.                   |
|                  | Mitchell & Guin             | Cotton mill.                 |
|                  | Marshall                    | Merchant flour.              |
| Red Clay Creek   | George Platt                | Bark.                        |
|                  | John Connelly               | Cotton spinning.             |
|                  | James Buckingham            | Merchant and grist.          |
|                  | William Atkins              | Merchant and grist.          |
|                  | Do.                         | Bark.                        |
|                  | Falls                       | Chocolate, mustard, &c.      |
|                  | Barker                      | Saw mill.                    |
|                  | Allen Wood                  | Iron rolling mill.           |
|                  | Joshua Lobb                 | Grist mill.                  |
|                  | J. C. Phillips              | Saw mill.                    |
| Mill Creek       | Levy Garret                 | Merchant and grist mill.     |
|                  | Jacob Pusey                 | Saw mill.                    |
|                  | Andrew Reynolds             | Snuff mill.                  |
|                  | John Harlan                 | Cotton spinning.             |
| Pike creek       | Do.                         | Grist mill.                  |
|                  | Stafford                    | Grist mill.                  |
|                  | Trump                       | Oil mill.                    |
|                  | Johnson                     | Cotton mill.                 |
| White Clay Creek | Samuel Stroud               | Cotton mill.                 |
|                  | England                     | Cotton mill.                 |
|                  | Harry Connelly              | Grist mill.                  |
|                  | Chamberlain                 | Fulling mill.                |
|                  | Meeteer                     | Merchant mill.               |
|                  | Rankin                      | Merchant mill.               |
| Christiana       | Do.                         | Paper mill.                  |
|                  | Crawford                    | Grist mill.                  |
|                  | Kelly                       | Grist mill.                  |
|                  | Janviers                    | Grist mill.                  |
|                  | Cooch                       | Merchant mill.               |
|                  | Meeteers                    | Grist mill.                  |
|                  | Macbeth                     | Saw mill.                    |
|                  | Ray                         | Grist mill.                  |
|                  | Falls                       | Paper mill.                  |

## DOCUMENT 16.—No. 2—LIST OF DELAWARE MANUFACTORIES.

*Newcastle County—Continued.*

|                    |   |                  |   |   |               |
|--------------------|---|------------------|---|---|---------------|
| St. George's Creek | - | Jacob Vandegrift | - | - | Carding mill. |
|                    |   |                  |   |   | Saw mill.     |
| Drawer's Creek     | - | Samuel Thomas    | - | - | Grist mill.   |
|                    |   | John Cannan      | - | - | Do.           |
| Appoquinimink      | - | John Grimm       | - | - | Do.           |
|                    |   | Samuel L. Eccles | - | - | Do.           |
|                    |   | Walker           | - | - | Do.           |
| Blackbird          | - | Ira Lyons        | - | - | Do.           |
|                    |   |                  |   |   | Saw mill.     |

*Kent County.*

|                   |   |                     |   |   |                    |
|-------------------|---|---------------------|---|---|--------------------|
| Smyrna            | - | Alexander V. Murphy | - | - | Cotton and woolen. |
|                   |   |                     |   |   | Fulling.           |
|                   |   | Richard Hoalting    | - | - | Bark.              |
|                   |   |                     |   |   | Cotton and wool.   |
|                   |   |                     |   |   | Fulling.           |
|                   |   |                     |   |   | Grist mill.        |
|                   |   | B. A. Crawford      | - | - | Bark.              |
|                   |   | George Stedham      | - | - | Bark.              |
|                   |   | John A. Peterson    | - | - | Tannery.           |
| Little Duck Creek | - | N. Ridgely          | - | - | Grist mill.        |
|                   |   |                     |   |   | Saw mill.          |
|                   |   | Ezekiel Cowgill     | - | - | Grist mill.        |
|                   |   |                     |   |   | Saw mill.          |
|                   |   |                     |   |   | Wool carding.      |
|                   |   | Pennywell & Sipple  | - | - | Bark mill.         |
|                   |   | Howell              | - | - | Grist mill.        |
|                   |   | Wollaston           | - | - | Grist mill.        |
|                   |   | Miffin              | - | - | Grist mill.        |
|                   |   | Fisher              | - | - | Grist mill.        |
|                   |   | Green & Scott       | - | - | Tannery.           |
|                   |   | Lewis               | - | - | Saw mill.          |
|                   |   |                     |   |   | Grist mill.        |
|                   |   |                     |   |   | Saw mill.          |
|                   |   |                     |   |   | Iron.              |
| Willow Grove      | - | James Green         | - | - | Tannery.           |
|                   |   | Verdin              | - | - | Grist mill.        |
|                   |   |                     |   |   | Saw.               |
|                   |   | Coopers             | - | - | Grist.             |
|                   |   |                     |   |   | Saw mill.          |
|                   |   | Dover               | - | - | Saw mill.          |
|                   |   | Douglass            | - | - | Grist mill.        |
|                   |   | Beens               | - | - | Grist.             |
|                   |   |                     |   |   | Saw mill.          |
|                   |   | Smith               | - | - | Saw mill.          |
| Frederica         | - | Charles Stedham     | - | - | Carding machine.   |
|                   |   |                     |   |   | Bark mill.         |
|                   |   | Thomas Clark        | - | - | Tannery.           |
|                   |   | Joseph Smithers     | - | - | Bark.              |
| Milford           | - | Benjamin Pettis     | - | - | Tannery.           |
|                   |   | John M. Darby       | - | - | Tannery.           |
|                   |   | Joseph E. Clunn     | - | - | Bark mill.         |
|                   |   | Charles Kennaway    | - | - | Do.                |
|                   |   | Milford Mill        | - | - | Grist.             |
|                   |   |                     |   |   | Saw mill.          |
| Canterbury        | - | William Roe         | - | - | Iron.              |

## DOCUMENT 16.—No. 2—LIST OF DELAWARE MANUFACTORIES.

*Sussex County.*

|              |                   |               |
|--------------|-------------------|---------------|
| Milford      | Peter F. Causey   | Oil mill.     |
| Millsborough | William D. Waples | Iron furnace. |
|              | Derrick Bernard   | Tannery.      |
|              | Simon K. Wilson   | Wool carding. |
|              |                   | Do.           |
|              | Aaron Marvel      | Bark mill.    |
| Milton       | Arthur Milby      | Leather.      |
|              | Samuel Painter    | Wool carding. |
|              | Joseph Maul       | Do.           |
|              | Gideon Waples     | Bark mill.    |
|              | Governor Hazzard  | Do.           |
| Laurel       | Theodore Mitchell | Tannery.      |
|              | Caleb Ross        | Wool carding. |
|              | Tench Polk        | Do.           |
|              | William B. Cooper | Forge.        |
| Nanticoke    | Solomon Prettyman | Leather.      |
| Seaford      | Do.               | Forge.        |
|              | Nathan Vickers    | Bark mill.    |
| Georgetown   | John Richards     | Tannery.      |
|              | William Tunnell   | Do.           |
| Lewestown    | Shepherd Houston  | Bark mill.    |
|              | William Russel    | Tannery.      |
| Bridewell    | Robert Houston    | Tannery.      |
| Concord      | Robert Houston    | Tannery.      |
| Dagsborough  | William Dunning   | Tannery.      |

## CIRCULAR.

WILMINGTON, DEL., *February 15, 1832.*

SIR: The Secretary of the Treasury having been required by two resolutions of the House of Representatives of the 19th of January, to collect and furnish it with facts and information of the manufactures of wool, cotton, hemp, iron, sugar, salt, and such other articles as are manufactured to considerable extent in the United States, has authorized and requested me to collect and obtain such information within the State of Delaware; and as it is obvious that the formation of a faithful statistical document of the manufactures of the State must be eminently useful not only upon the present but every future occasion, I am desirous to execute the wishes of the Secretary, and to form such document, with the utmost possible accuracy and impartiality; but as I must for this purpose depend on the facts furnished me by those who are interested in the manufactures, I beg leave most respectfully to solicit from you the necessary information respecting those in which you are engaged: and as the information required by Congress and the Secretary is intended to assist the operations of the present session, despatch in furnishing it becomes essential. I shall, therefore, be obliged by your giving it the earliest possible attention, and transmitting it by post, directed to me, at Wilmington.

Believe me, with great respect,  
Your obedient humble servant,

JOSHUA GILPIN.

In order to guide your communications, I subjoin the resolutions and queries contained in the Secretary's instructions, and, in addition to such specific replies as you may think proper to give to the queries, you are invited to furnish any information or suggestions you may think useful to the adjustment of the tariff.



DOVER, 29th February, 1832.

DEAR SIR: I received, on Monday evening, your letter of the 23d instant, and have since used all the means in my power to ascertain the names of such manufacturers as are in Kent and Sussex.

There are not, I believe, any manufactures of cotton, hemp, or sugar; nor of salt, except, I understand, a few on the seaboard in Sussex, who make it in a small way, and whose names and places of residence I could not learn.

I have heard of but one manufacture of woollen cloth in this county or Sussex; his name is Alexander V. Murphy, and he resides near Smyrna; but to what extent he carries it on I do not know.

The following persons are manufacturers of iron, but how extensively I cannot say, viz. George Bonwill, near Frederica, and William Roe, near Canterbury, in this county; and Daniel Barnard, at Millsborough, and Solomon Prettyman, Seaford, in Sussex county.

Yours, very respectfully and truly,

H. M. RIDGELY.

JOSHUA GILPIN, Esq., near Wilmington, Del.

GEORGETOWN, 28th February, 1832.

SIR: I received, by last Saturday's mail, your printed letter, dated the 15th instant, requesting me to furnish you with a list of the principal manufactures and manufacturers in this county, to whom you may more particularly address yourself for the specific information of those in which they are engaged; as, also, for any such information I may be pleased to furnish, in order to enable you to comply with a request of the Secretary of the Treasury for information to enable him to comply with two resolutions of the House of Representatives, requiring him to collect and furnish it, with facts and information of the manufactures of wool, cotton, hemp, iron, sugar, salt, and such other articles as are manufactured to considerable extent in the United States. I have no information to enable me to furnish a statistical account of any articles mentioned, or of any other manufactured in this county, but, agreeably to your request, refer you to those engaged in the articles mentioned below.

Wool is not manufactured into cloth at any mill in this county, but is carded for domestic purposes by wool carding machinery—at Millsborough, by Derrick Bernard & Co.; near do., by Dr. Simon K. Wilson; Milton, by Arthur Milby; near do., by Samuel Painter, Esq.; Laurel, by Theodore Mitchell; near do., by Caleb Ross.

Cotton: this article is not made into cloth at any mill in the county. Arthur Milby has a set of spindles for spinning, but I believe they have not been in use for several years. The domestic spinning of this article, in families, has entirely ceased.

Hemp is not raised or manufactured in the county.

Iron: one furnace for castings and pig iron, at Millsborough, carried on by Samuel G. Wright, of New Jersey, and Col. Wm. D. Waples, of Millsborough; one forge near Laurel, by Josiah Polk; one forge in Nanticoke Hundred, by Solomon Prettyman, of Seaford.

Sugar is not made in this county.

Salt is made by boiling salt water in small pans, by individuals, a few miles below Lewestown, and in Baltimore Hundred, but by whom I am not informed. From the best information now in my power, I presume there are about 10,000 bushels made annually in the county.

Linseed Oil: Peter F. Causey, Esq., near Milford, but he, himself, lives in Milford.

Quercitron, or yellow oak bark, called here, black oak—by Simon K. Wilson, near Millsborough; Solomon Prettyman, Seaford; Dr. John Cary, deceased, his executor, William N. Polk, do.; Shepherd. Houston, near Lewestown; Dr. Joseph Maull, Milton; Gideon Waples, do.

Leather: Dagsborough, Wm. Dunning; Millsborough, Wm. D. Waples; Aaron Morrel, near do.; William Russel, Lewestown; Milton, Governor Hazzard; Laurel, Wm. B. Cooper, Esq.; Concord, Robert Houston, son of John; Bridgeville, Robert Houston, son of Liston; Seaford, Nathan Vickers, Esq.; Georgetown, John Richards; Do., Wm. Tunnell.

Richards tans about 1,800 sides of Spanish hides, and Wm. Tunnell about 1,000 Spanish hides, and a few country.

Flour: I believe there is none manufactured for exportation.

Corn meal: a few years ago, some of this article was manufactured at \_\_\_\_\_ and at Middleford; but at this time, and for some years past, I believe none.

## DOCUMENT 16.—No. 2—Continued.

This is all the information in my power to furnish. I hope the result of the information furnished to the Secretary of the Treasury from the different sections of the United States, will produce such a union and concord in Congress, on the subject of the modification of the tariff, that will harmonize and unite in brotherly union the North and the South, and West, so that we may continue one people. If I can be of any further service in this business, it will give me pleasure to oblige you, as well as my friend the Secretary of the Treasury. But for two weeks, after next Monday, I shall be so engaged that I could not devote any time to the subject; and after the first of April, I shall be also engaged. But after the courts are over it will give me pleasure to attend to your calls.

Very respectfully,

PETER ROBINSON.

N. B. Perhaps I ought to inform you that most of the iron ore of this county is transported to New Jersey for the furnaces there. It costs them about five dollars per ton to get it landed in New Jersey.

P. R.

Mr. JOSHUA GILPIN.

*Lewes, March 1, 1832.*

DEAR SIR: I received yours a few days past, requesting information and facts relative to manufactures. We have none in our county, except iron and salt: as to the first, you will receive from the owners of the furnace at Millsborough, viz. Samuel G. Wright, of Philadelphia, Col. Wm. D. Waples, and Mr. D. Bernard, at Millsborough, the most accurate information. There are no other works where iron is manufactured to any extent in Sussex, though much iron ore is raised and transported to Jersey. As it respects salt, the manufacture by evaporation has been neglected for some years; there are some persons at Rehoboth, and some at Indian River, who have pans or kettles, and boil salt when the water is good, in warm weather, though in a small way, to supply the neighborhood only. If there are any other manufactures, except in families, for their own use, I have not heard of them.

With real esteem,

I am your faithful friend,

DANIEL RODNEY.

JOSHUA GILPIN, Esq.

*NAAMAN'S CREEK, February 23, 1832.*

SIR: Your letter of the 23d instant, came duly to hand; and I shall endeavor to give you what information I possess of the manufactories and manufacturers in Brandywine Hundred, except those on Brandywine Creek and its vicinity, as I presume you will get information respecting that section of country from those who live there.

The following are the owners, manufacturers, manufactories, and their situations, as far as my recollection serves me:

1. Owner, Caleb Churchman; manufacturer, John T. Bloomall; merchant flour mill; situated on the tide water of Naaman's Creek.
2. Owner and manufacturer, Bayard Grubb; situated on a branch of Naaman's Creek; manufactory, flour mill.
3. Owner, George Buck; manufactory, oil mill, at present unoccupied; situated on a branch of Naaman's Creek.
4. Owner and manufacturer, Abner Cloud; manufactory, saw mill; situated on a branch of Naaman's Creek.
5. Owner and manufacturer, George Davis; manufactories, flour mill and saw mill; situated on Shellpot Creek.
6. Owner and manufacturer, name not recollected; situated near the post road on Shellpot Creek; manufactory, flour mill.
7. Owner and manufacturer, John Beason, situated on Stoney Creek; manufactory, saw mill.
8. Owners and manufacturers, Jacob and Esau Sharpley; manufactories, saw mill and wool carding; situated on Shellpot Creek.

Yours, very respectfully,

THOS. ROBINSON.

JOSHUA GILPIN, Esq.

NAAMAN'S CREEK, March 6, 1832.

DEAR SIR: Your favor of the 4th instant, I have received to-day. As regards the mill at Naaman's Creek, the present owner paid John Bellach, (deceased,) \$10,000 for it; but I understand offers it for sale at \$6,000, owing to its being much out of repair. The present tenant, J. T. Bloomall, pays \$225 per annum for it: the property would rent for more, but a part of the house, store-house, and stabling, is occupied by persons who are engaged in getting out stone for breakwater and railroads.

I think if the miller occupied the whole of the property, would pay, say, \$350.

As regards the other mills which I stated in my former letter, the saw mills would rent for \$100 per annum, each; the flour mills for about \$200 per annum, each. The mill at Naaman's Creek requires two hands, and suppose could grind 40,000 bushels of wheat per year. One hand could carry on either of the other mills.

Yours, respectfully,

THOS. ROBINSON.

JOSHUA GILPIN, Esq.

## BRANDYWINE FLOUR MILLS.

## STATISTICAL ESTIMATE OF THE MANUFACTURES OF DELAWARE—CONTINUED.

## Newcastle County—Continued.

Brandywine Creek: manufactures at the bridge, at the head of tide water.

## 1. Corn or flour mills:

|                                                                                                                   |          |                  |
|-------------------------------------------------------------------------------------------------------------------|----------|------------------|
| 12 mills of the first class, containing 12 water wheels and 24 pairs of mill stones; value, with the dwelling, at | \$20,000 | \$240,000        |
| 16 cooper's shops and dwellings, at                                                                               | 1,000    | 16,000           |
| 18 river craft sloops, at                                                                                         | 2,000    | 36,000           |
|                                                                                                                   |          | <u>\$292,000</u> |

|                                       |          |                |
|---------------------------------------|----------|----------------|
| Moneyed capital employed at each mill | \$15,000 | \$180,000      |
| Total of taxed and moneyed capital    |          | <u>472,000</u> |

## Annual manufacture, raw material and value:

|                                                                |           |                  |
|----------------------------------------------------------------|-----------|------------------|
| 360,000 bushels of wheat, at \$1 25                            | \$450,000 |                  |
| 180,000 do of Indian corn, at 60 cents                         | 108,000   |                  |
|                                                                |           | 558,000          |
| Product of 16 coopers' shops, for 115,000 barrels, at 33 cents | 37,950    |                  |
| Cost of 18 sloops in carrying                                  | 18,000    |                  |
| Wages and support of 36 persons employed, \$300 per annum      | 10,800    |                  |
|                                                                |           | <u>66,750</u>    |
|                                                                |           | <u>\$624,750</u> |

## Product of the manufacture:

|                                                                     |           |                  |
|---------------------------------------------------------------------|-----------|------------------|
| Flour, 75,000 barrels, at \$6 50                                    | \$487,500 |                  |
| Indian meal, 40,000 barrels, at \$3 50                              | 140,000   |                  |
| 15 bush. brown stuff per 100 bush. wheat, making 54,000 bush., \$35 | 18,900    |                  |
| 10 do shorts do do 36,000 do 30                                     | 10,800    |                  |
| 3 do ship stuff do do 10,800 do 75                                  | 8,100     |                  |
| 3 barrels middlings, 1,000 bushels wheat, 1,080 barrels, \$3        | 3,240     |                  |
| Corn and shorts, say 6,000 bushels, \$30                            | 1,800     |                  |
|                                                                     |           | <u>\$670,340</u> |

|                                          |  |                 |
|------------------------------------------|--|-----------------|
| Profit, exclusive of interest on capital |  | <u>\$45,590</u> |
|------------------------------------------|--|-----------------|

*James Price & Son's Merchant Flour Mills.*

| QUESTIONS.                                                                                                                                                                                                                                                   | ANSWERS.                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                         | 2. Five water wheels, and ten pair stones.                             |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                                                                                                                                                  | 4. One hundred thousand dollars.                                       |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                              | 5. Fifty thousand dollars.                                             |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                        | 9. 26,000 barrels flour, at \$6 50; 30,000 barrels corn, at \$3.       |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                              | 10. 130,000 bush. wheat, at \$1 25; 120,000 bushels corn, at 50 cents. |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                            | 12. Fifty men; no women or children; at \$1 each; 25 per mill.         |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                             | 13. Twenty-four hours; ten months.                                     |
| 14. Rate of wages of similar classes otherwise employed in the same State and county; in other States; and in foreign countries?                                                                                                                             | 14. About the same.                                                    |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                    | 16. Sent to other parts of the United States.                          |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                   | 17. None.                                                              |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                     | 18. Corn meal to West Indies; thence to be exported.                   |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                     | 19. Answered before.                                                   |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                   | 20. Ninety and 120 days' credit.                                       |
| 21. Whether the cost of the manufactured article (to the manufacturer,) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. Not much increase.                                                 |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                             | 27. All agricultural.                                                  |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States; and what amount in your own State?                                                                                                                         | 28. One hundred and twenty thousand dollars.                           |
| 40. Average rate of wages?                                                                                                                                                                                                                                   | 40. One dollar per day.                                                |

BRANDYWINE, February 28, 1832.

ESTEEMED FRIEND: Thy note of yesterday, with the printed circular annexed, was received this morning. I proceed, at once, to give such information in relation to our establishment here for the manufacture of grain, as may be serviceable in furnishing the statistical account which thee is preparing.

We have here twelve mills for the manufacture of grain; also, one large cotton factory, the lower story of which is occupied as a machine shop. The factory is carried on by Thomas Garrett and Jacob Pusey, and the machine establishment by Wm. Reeve, to whom I refer for information in relation to their respective branches of business.

We manufacture here both wheat and corn; it would probably be as near the truth as we can come, to say nine of the mills are engaged in grinding wheat, and would manufacture, annually, 40,000 bushels each, or 360,000 bushels, and the average price may be set down at not less than \$1½ per bushel. \$450,000

Kiln dried corn is manufactured with much more facility than wheat, and we may safely say 60,000 bushels for each mill; say for the three mills, 180,000 bushels, at 60 cents per bushel. 108,000

We have here 16 cooper shops; the annual value of work would exceed \$2,000 each. 32,000

A large proportion of our grain is brought from a distance, say Jersey, Maryland, and Virginia, and gives employ to a number of vessels not owned here; but each mill would give employ to a sloop of about 40 tons, and of \$2,000 value. 24,000

\$614,000

If the value of the mills is desired, thee is as competent as myself to affix a value on them. I may remark that the borough purchased one of them a few years since, for which they gave \$28,000.

Of millers, coopers, and shallopmen, we employ about 150; all men, and a large portion of them with families.

Very respectfully, thy friend,

JAS. CANBY.

JOSHUA GILPIN, Esq.

*Samuel Bailey's Mill, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Newcastle, Delaware.                                                                                      |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Water power; manufacture, flour, kiln dried corn meal, quercitron bark, and lumber; barrels and hogsheds. |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. In 1820.                                                                                                  |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Thirty thousand dollars.                                                                                  |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. Various.                                                                                                  |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. Various.                                                                                                  |

## DOCUMENT 16.—No. 2—Continued.

| QUESTIONS.                                                                                                                 | ANSWERS.                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12. Number of men, women, and children employed; and average wages of each class?                                          | 12. Twenty-three men employed; average wages 87½ cents per day.                                                                                                                                      |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                  | 16. Philadelphia, New York, Wilmington, and neighborhood.                                                                                                                                            |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent? | 17. The greatest injury sustained by the manufacturers of flour, &c., is encouragement given to the produce of the lakes finding a market in Canada, and from thence to England and the West Indies. |

STAUNTON MILLS, *April 13, 1832.*

SAMUEL BAILEY.

CANTWELL'S BRIDGE, *March 21, 1832.*

DEAR SIR: Yours of the 9th instant, enclosing circulars for distribution among the millers of our neighborhood, is received. I have sent a copy to each of the following persons: John Ginn, Cyrus Tatman, Alexander V. Murphy, Thomas Murphy, Samuel Eccles, John H. Cannon, Jacob Vandegrift, Samuel H. Truman.

In relation to the information you wish of the value of the mills, &c., I can only give you a very imperfect estimate, as my personal knowledge of such real estate, and of the particular properties hereafter enumerated, is too limited to be relied on for its accuracy. I have, however, availed myself of the advice of a neighbor of some experience, and our joint estimate and valuation is as follows:

On Appoquinimink Creek:

Grist mill, owned and occupied by John Cannon; two pair of stones, one water wheel; manufactures, say 2,000 barrels Indian meal, 1,000 barrels flour per year; employs, say two men in the mill. Valued at \$3,500, including dwelling, without the farm attached.

Grist mill, owned by the heirs of Samuel Thomas, occupied by Cyrus Tatman; two pair stones, one water wheel; manufactures 2,000 barrels meal, 2,000 barrels flour per year; employs three hands in the mill. Valued at \$4,000, exclusive of the farm attached.

Grist mill, owned by John Ginn, and occupied by tenants; manufactures about the same as Cannon's, and gives employment to about the same number of persons. The buildings being inferior, we value this property at \$3,000.

Grist mill, owned and occupied by Samuel L. Eccles; same number of stones and water wheel; manufactures about 1,000 barrels meal, 600 barrels flour; employs two men. Valued at \$2,000.

A mill seat not occupied, on a branch of this creek near St. Ann's Church. Value not estimated.

Grist mill, saw mill, and clover seed mill, on Back Creek, Cecil county, Maryland, owned by Samuel H. Truman. I am not informed as to the capacity of this mill for manufacturing, and therefore make no estimate. The property, I should suppose, worth at least \$5,000.

Grist mill, on the head of Bohemia, owned by the heirs of James A. Bayard, esq., deceased, occupied by Thomas Murphy; two pair stones, one water wheel; manufactures yearly, say 2,000 barrels meal, and 1,000 barrels flour; employs two men in the mill. Valued at \$3,000.

Slighter's mill, down and in ruins, near the above grist mill, at the head of Sassafra, owned by William A. Miller. This has been one of the best properties of the kind in this part of the country; it is now, however, in bad order; its capacity to manufacture is, perhaps, about equal to the Bayard mill abovementioned.

On Black Bird: Mill occupied by Ira Lyons, with saw mill attached; both ordinary. Value not exceeding \$1,800.

On ditto: Grist mill, in ruins; owned by John Whitby.

On ditto: Saw mill, very inferior; by H. Walker.

On St. George's: A carding and saw mill, owned by Jacob Vandegrift. Value about \$1,500.

## DOCUMENT 16.—No. 2.—Continued.

There may be other mills which we have omitted, but I cannot call to mind any others in this neighborhood. In the vicinity of Smyrna, there are a number, an account of which any of the gentlemen there will furnish you. Indeed, our peninsula is, as you no doubt are aware, studded with them at the head of nearly all the streams that empty into the two bays.

With much respect, your friend,

D. CORBIT.

JOSHUA GILPIN, Esq.

CANTWELL'S BRIDGE, March 6, 1832.

DEAR SIR: In reply to your communication of the 27th ult., that I would make out and transmit you a list of the manufactures and manufacturers in this neighborhood, and also on the waters of this creek, Sassafra, Bohemia, Blackbird, and St. George's, have to observe, that there are none to my knowledge other than flour or grist mills, on any of these waters; which, as near as I can ascertain, belong, or are occupied, as follows:

On Bohemia: at the head waters thereof, a grist mill, owned by Mrs. James A. Bayard.

On the Sassafra: only one mill, at the head, occupied by Wm. A. Miller.

On Blackbird: only one, occupied by Ira Lyons.

On St. George's: none, the canal having purchased out all the water rights.

On our creek, Appoquinimink, there are several: one, owned by John Ginn, near Newtown; one, owned by Samuel L. Eccles, at Noxtown; one, on Drawyer's, a branch of Appoquinimink, owned by the heirs of Samuel Thomas, deceased; one, on the same, owned by John Cannon.

These comprise all the mills on those waters that I know of, or, by inquiry, can ascertain. There are sites for factories, I have no doubt, on all of them; several I know on our creek, but for the want of capital and enterprise among our people, it is likely to be some time before they will be occupied in that way. Any further information you may want, which it is in my power to give, I will, at any time, cheerfully furnish.

Yours, very respectfully,

DANIEL CORBIT.

JOSHUA GILPIN, Esq.

March 25, 1832.

SIR: In answer to your notice, which I received on the 23d day of March, I have now set down to make out as correct a statement of the small concern which I am engaged in, as I can well come at.

1. We are situated at the head of Back Creek, in Cecil county, and State of Maryland.
2. We have a grist mill, saw mill, and clover mill, and all driven by water power.
3. It has been established as a grist mill upwards of one hundred years, the saw and clover mill about two years.
4. The capital invested in ground, buildings, and machinery, is about \$6,000.
5. Average amount for materials for the last year, ending 30th of September, 1831, and wages, \$700.

6. The article manufactured is principally corn and wheat, about nine or ten hundred bushels a year, of which we are entitled to the one-eighth. The sawing which is done perhaps would profit something like \$200 per annum. Clover seed which was got out, about 300 bushels; the one-eighth we get for our trouble, which amounts, in money, to about \$35.

7. We have employed, generally, two men and one boy. We also employ four head of horses and cattle. The grist mill, I should suppose, works about six hours in the day, the saw mill and clover mill each work about two months in the year, making four months the two.

I, above, have made out a statement of our concern, as near as I could come at it. As we do not keep a regular account of our business done, I had no true guide to go by; consequently, I had to come at it the best that I could.

It being a thing that I had never thought of having to give an account of, I expect that to you I made an awkward minute of it. However, perhaps it may answer for you to make out your statement by; and if so, I shall be much gratified.

With respect, I am yours, &c.

SAMUEL H. FREEMAN.

MR. JOSHUA GILPIN.

## DOCUMENT 16.—No. 2—Continued.

*Account of sundry Mills in Kent County, with supposed value.*

|                                                      |   |   |   |   |   |   |   |         |
|------------------------------------------------------|---|---|---|---|---|---|---|---------|
| Mill at Old Duck Creek                               | - | - | - | - | - | - | - | \$2,500 |
| Do. at Smyrna                                        | - | - | - | - | - | - | - | 2,300   |
| Do. Ridgely's                                        | - | - | - | - | - | - | - | 3,000   |
| Cowgill's grist and saw                              | - | - | - | - | - | - | - | 3,000   |
| Howell's do.                                         | - | - | - | - | - | - | - | 2,500   |
| Millister's, late as bark mill,                      | - | - | - | - | - | - | - | 1,500   |
| Miffin's grist                                       | - | - | - | - | - | - | - | 2,500   |
| Fisher's do.                                         | - | - | - | - | - | - | - | 2,500   |
| Lewes' saw mill                                      | - | - | - | - | - | - | - | 300     |
| Bonnel's grist and saw                               | - | - | - | - | - | - | - | 2,500   |
| Verder's do. do.                                     | - | - | - | - | - | - | - | 2,500   |
| Cooper's, now saw mill                               | - | - | - | - | - | - | - | 800     |
| Do. near Dover (stream)                              | - | - | - | - | - | - | - | 300     |
| Douglass' mills                                      | - | - | - | - | - | - | - | 2,500   |
| Boon's grist and saw mill                            | - | - | - | - | - | - | - | 2,500   |
| Smith's mill                                         | - | - | - | - | - | - | - | 800     |
| Millford mills                                       | - | - | - | - | - | - | - | 2,000   |
| Alabama mill                                         | - | - | - | - | - | - | - | 800     |
| Miller's, (stream only)                              | - | - | - | - | - | - | - | 100     |
| Forrest Landing, (stream only)                       | - | - | - | - | - | - | - | 500     |
| Some mills about Smyrna and Kenton, not recollected. |   |   |   |   |   |   |   |         |

*Garrett & Pusey's Cotton Yarn Manufactory, Newcastle County, Delaware.*

## QUESTIONS.

1. State and county in which the manufactory is situated?
2. Kind or description of the manufactory; and whether water, steam, or other power?
3. When established; and whether a joint stock concern?
4. Capital invested in ground and buildings, and water power and machinery?
5. Average amount in materials, and in cash for the purchase of materials and payment of wages?
6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed?
7. Cause of the increase, (or decrease, as the case may be,) of profit?

## ANSWERS.

1. In the State of Delaware, Newcastle county, situated on the Brandywine, in the city of Wilmington.
2. Manufactures cotton yarns, No. 8 to 30; the water power is owned by the city, and used at night to pump the water for the use of the city.
3. Established, 1829, by two individuals, but owing to the depressed state of the business in that and the next year, they became embarrassed, and their effects were sold by the sheriff to pay their debts, but fell sadly short.
4. The mill and property cost twenty-eight thousand dollars; machinery valued at ten thousand dollars.
5. About six thousand dollars.
6. Those engaged in the establishment in 1829 and '30, must have sustained considerable loss, and, no doubt, would have been better out of business during that time; for the last year the business has met a fair profit, and, no doubt, much more than it will do for two years to come, should the duty be continued.
7. The cause of the increase in the profit was, no doubt, owing to the scarcity of goods in the market, and that scarcity was produced by the goods being lower than the manufacturers could afford to make.



| QUESTIONS.                                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                         | 8. We know but little about the business or profits of others, in this State or county, but presume there is nothing worse than farming, where they depend on slave labor.                                                                                                                                                                                                              |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                  | 9. We manufactured last year about 124,000 lbs. yarn, valued at \$30,000.                                                                                                                                                                                                                                                                                                               |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                        | 10. We used 400 bales of cotton, valued at about \$14,000; 250 gallons lamp oil, valued at \$212; twine, paper, &c. \$100.                                                                                                                                                                                                                                                              |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                        | 11. This I know but little about.                                                                                                                                                                                                                                                                                                                                                       |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                      | 12. We have in our employ nine men, twelve women, and thirty-one children.                                                                                                                                                                                                                                                                                                              |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                       | 13. The hands are employed about eleven and a half hours per day, the year round.                                                                                                                                                                                                                                                                                                       |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                       | 14. Of this I can give but very little account, but suppose the women could make quite as much with their needles; there is not much work to be had for children at any price, except in manufactories.                                                                                                                                                                                 |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                              | 16. Our sales are made in Philadelphia, twenty-eight miles distant; have water carriage about ten months in the year.                                                                                                                                                                                                                                                                   |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                             | 17. This I know nothing about.                                                                                                                                                                                                                                                                                                                                                          |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                               | 18. In this country, the West Indies; and of late some have been sent to the East Indies, but whether they have paid expenses or not I cannot say.                                                                                                                                                                                                                                      |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                              | 19. Answered in 18th query.                                                                                                                                                                                                                                                                                                                                                             |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered for what?                                                                                                                                              | 20. Part is sold by us on credit; the rest by our agent, mostly on credit.                                                                                                                                                                                                                                                                                                              |
| 27. What amount of the agricultural products of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                          | 27. There are about 150 barrels flour, valued at \$750; fuel, \$300; sundries, meats, vegetables, &c., \$950.                                                                                                                                                                                                                                                                           |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                   | 28. I have not sufficient data by me to answer this question.                                                                                                                                                                                                                                                                                                                           |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent, with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. We think it would certainly cause us to abandon our business for a few years, but we think in three or four from the time the duty was reduced, those who could hold their works, might commence with safety, and make fifty per cent. more than the past year; for as soon as John Bull thought himself possessed of the market, the prices would nearly double what they now are. |

## DOCUMENT 16.—No. 2—Continued.

| QUESTIONS.                                                                                                                                                    | ANSWERS.                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                | 30. We cannot yet certainly tell, but think likely that most of our capital would be sunk in the machinery, as that which cost thousands would be of little or no value. |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.? | 31. An answer to this will be found in our answer to the 29th query.                                                                                                     |

Those are all the queries that we can at this time answer, or that we think ought to be answered. Many questions that are put would not afford any facilities, if answered, we think, to come at a correct judgment respecting what would be best to be done.

Yours, respectfully,

GARRETT & PUSEY.

I have now been engaged in mercantile business for ten years past, and have been concerned in the manufacture of iron and nails for the last five years, and for the past year have had a concern in a cotton factory, and from the best information I have been able to get, I am firmly of the opinion, was the manufacturers of iron assured that the present duty would not be reduced, we should, in ten years from this time, have enough iron manufactured in this country to supply the demand, superior to the common English iron, for less per ton than we should get it from England or any other country, even though the duty is reduced to 12½ or even 10 per cent. Coarse cotton goods is at this time made here better and fifty per cent. less price, than they ever were before the duty was raised to what it now is; and I assuredly believe it will be the case with woollens, if the duty is continued, and our farmers encouraged in raising of sheep. Should the duty be reduced or taken off, to meet the views of those individuals who have made so much noise about the many being so enormously taxed for the benefit of the few, I have no doubt thousands will be ruined by it, and not one in fifty of those so anxious for it would be one cent the better off for it, but many of them would find, when too late, they were thousands out of pocket.

Respectfully yours,

THOS. GARRETT.

*Joseph Bancroft's Cotton Manufactory, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Delaware, Newcastle county.                                                    |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Water power; for the manufacture of fine cotton goods.                         |
| 3. When established; and whether a joint stock concern?                                                                               | 3. Close of 1831.                                                                 |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                       | 4. Water power, &c., \$25,000; machinery, \$17,000.                               |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. Calculated to produce 150,000 yards cambric muslin.                            |
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?       | 10. Say 40,000 lbs. of cotton, 200 gallons oil, 30 barrels flour, in the factory. |

DOCUMENT 16.—No. 2—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                       | 12. Seventeen men, at \$9 a week; twenty-five women, 3 to \$4 do.; twenty children, at \$1 75 do.                            |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                        | 13. Average eleven hours.                                                                                                    |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                        | 14. In other States nearly as above; in England, men, \$6 a week; women, 2 to \$2 50 do.; children, \$1 50 to \$1 75 do.     |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                               | 16. To Philadelphia, New York, and Baltimore.                                                                                |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                              | 17. They do almost wholly, the manufacture being only a trial in this country, as yet.                                       |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                | 19. Occasionally, under some circumstances, a few might perhaps be sent to Mexico or South America.                          |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                              | 20. Generally on six months' credit.                                                                                         |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                              | 23. On yarns above 30 hanks per lb., increase the duty to 25 cents per lb., with an increased minimum for fine cotton goods. |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. I should be compelled to abandon the business.                                                                           |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. I should have none to employ, as my property must be sacrificed, and would probably not sell for half its cost to me.    |

ROCKFORD, *Third Month, 6th, 1832.*

RESPECTED FRIEND: Herewith I hand thee two statements, as nearly conformable to what I understand to be thy wish, as I am capable of essaying at this time; believing their general amounts will be not far from the truth.

With regard to my own establishment, it has been so recently started that I am unable to answer most of the queries propounded by the Secretary of the Treasury. I intend to manufacture cambric muslins, or other fine cotton goods; and have machinery calculated to employ about seventeen men, twenty-five women, and twenty-five children, who will work, on an average, about eleven hours a day.

Perhaps it will be best to state, that I expect it will produce near 3,000 yards of cambric muslin per week; which ought to sell for 18 to 20 cents per yard, including commission, and other expenses, and at six months' credit. It is not unlikely if they are made very light but that they may allow of exportation to Mexico occasionally.

Very respectfully, thy friend,

JOSEPH BANCROFT.

JOSHUA GILPIN.

P. S. I omitted to state that I shall have 1,760 spindles and 30 power looms.

## DOCUMENT 16.—No. 2—Continued.

*Estimate of the general cost and production of a Cotton Factory, having 2,000 spindles, in the manufacture of yarn of the common numbers, (say No. 15 to 20,) on Brandywine Creek.*

|                           |   |   |   |   |   |          |                 |
|---------------------------|---|---|---|---|---|----------|-----------------|
| Mill and water power      | - | - | - | - | - | \$12,000 |                 |
| Dwellings                 | - | - | - | - | - | 4,000    |                 |
| Machinery and workshops   | - | - | - | - | - | 25,000   |                 |
| Horses, wagons, &c.       | - | - | - | - | - | 1,000    | 42,000          |
| Moneyed capital employed, | - | - | - | - | - |          | 8,000           |
| <b>Total</b>              | - | - | - | - | - |          | <b>\$50,000</b> |

|                                                    |   |   |   |   |   |        |        |
|----------------------------------------------------|---|---|---|---|---|--------|--------|
| Will use annually 130,000 lbs. cotton, at 11 cents | - | - | - | - | - | 14,300 |        |
| Wages, thirty-five men, women, and children        | - | - | - | - | - | 6,240  |        |
| Cost of transportation                             | - | - | - | - | - | 1,260  | 21,800 |

|                                                                         |   |   |   |   |   |  |        |
|-------------------------------------------------------------------------|---|---|---|---|---|--|--------|
| Producing 115,000 lbs. of yarn, which nets at present, 23 cents per lb. | - | - | - | - | - |  | 27,600 |
|-------------------------------------------------------------------------|---|---|---|---|---|--|--------|

|                                                                                                                                  |   |   |   |   |   |  |       |
|----------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|--|-------|
| Annual profit, exclusive of interest                                                                                             | - | - | - | - | - |  | 5,800 |
| Besides which, it is usually allowed that ten per cent. per annum, ought to be deducted from the cost of machinery for wear, &c. | - | - | - | - | - |  | 2,500 |

|            |   |   |   |   |   |  |              |
|------------|---|---|---|---|---|--|--------------|
| <b>Net</b> | - | - | - | - | - |  | <b>3,300</b> |
|------------|---|---|---|---|---|--|--------------|

|                                                  |   |   |   |   |   |                      |  |
|--------------------------------------------------|---|---|---|---|---|----------------------|--|
| Wages of men employed in cotton mills in England | - | - | - | - | - | \$6 per week.        |  |
| Do do do in United States                        | - | - | - | - | - | 9 do.                |  |
| Do women do in England                           | - | - | - | - | - | 2 50 to \$2 00.      |  |
| Do do do in United States                        | - | - | - | - | - | 3 50 to \$3 and \$4. |  |
| Do children do in England                        | - | - | - | - | - | 1 50 to 75 cents.    |  |
| Do do do in United States                        | - | - | - | - | - | 1 75 to 75 cents.    |  |

*Estimate of the general cost and production of a Cotton Factory having 2,000 spindles, in the manufacture of finer yarns, say No. 40, on Brandywine Creek.*

|                          |   |   |   |   |   |          |        |
|--------------------------|---|---|---|---|---|----------|--------|
| Mill and water power     | - | - | - | - | - | \$12,000 |        |
| Machinery, &c.           | - | - | - | - | - | 20,000   |        |
| Dwellings                | - | - | - | - | - | 4,000    |        |
| Horses and wagons, &c.   | - | - | - | - | - | 700      | 36,700 |
| Moneyed capital employed | - | - | - | - | - |          | 5,000  |

|                      |   |   |   |   |   |  |                 |
|----------------------|---|---|---|---|---|--|-----------------|
| <b>Total capital</b> | - | - | - | - | - |  | <b>\$41,700</b> |
|----------------------|---|---|---|---|---|--|-----------------|

|                                                      |   |   |   |   |   |  |       |
|------------------------------------------------------|---|---|---|---|---|--|-------|
| Will use annually 40,000 lbs. of cotton, at 13 cents | - | - | - | - | - |  | 5,200 |
| Wages, thirty men, women, and children               | - | - | - | - | - |  | 5,200 |
| Transportation                                       | - | - | - | - | - |  | 900   |

|  |   |   |   |   |   |  |                 |
|--|---|---|---|---|---|--|-----------------|
|  | - | - | - | - | - |  | <b>\$11,300</b> |
|--|---|---|---|---|---|--|-----------------|

|                                                                       |   |   |   |   |   |  |                 |
|-----------------------------------------------------------------------|---|---|---|---|---|--|-----------------|
| Producing 35,000 lb. of yarn, which nets at present, 44 cents per lb. | - | - | - | - | - |  | <b>\$15,400</b> |
|-----------------------------------------------------------------------|---|---|---|---|---|--|-----------------|

|                                                                                                                                                                            |   |   |   |   |   |  |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|--|-------|
| Annual profit, exclusive of interest                                                                                                                                       | - | - | - | - | - |  | 4,100 |
| Besides which it is usual to deduct ten per cent. per annum for wear, &c., of machinery, which is found very little more than sufficient to keep it in good working repair | - | - | - | - | - |  | 2,000 |

|            |   |   |   |   |   |  |                |
|------------|---|---|---|---|---|--|----------------|
| <b>Net</b> | - | - | - | - | - |  | <b>\$2,100</b> |
|------------|---|---|---|---|---|--|----------------|

On examination of the accompanying statements it will be found that fine spinning is not near so profitable as coarse spinning. There is also a difficulty in the way of fine spinning here, arising from the want of suitable material for the strong yarns or twist for warps. The best New Orleans cottons alone are not so suitable for spinning twists from No. 40 upwards,

as many of the South American cottons, which are sold in Liverpool for nearly the same price; they are much stronger in the staple. The Sea Island cottons are finer than needful, and higher priced than such cottons as might be imported would come at, if there was call for them, by the introduction of this kind of spinning.

It will be observed, that the wages of men are fifty per cent higher here than in England; and their assistance is more needful in the fine than in coarse spinning, where children can do most of the work, in whose wages here and in England there is very little difference. The high price of machinery also operates very unfavorably on fine spinning, seeing the weight of yarn produced by any given number of spindles is so materially reduced, and this reduction is in the most expensive part of the work, viz. that on which men are employed. If it were not for the difficulty of properly weaving and finishing fine goods here, large quantities of fine yarn would be imported, as there is no difference in the duty on a pound of yarn of ten hanks and a pound of one hundred hanks to the pound, which ought not to be the case, considering the difference in the labor and expense required to produce the two yarns.

*A table showing the difference of protection afforded by the present tariff on coarse and fine yarns to American labor, as it ought to be kept in view that it is the labor of the country which is sought to be protected and encouraged.*

H. Clay, in his last speech in the Senate of the United States, remarks, that such machinery is used in this country as requires the attention of females only, and intimates that to be the case for the production of yarns for which the labor of men is required in England: this, however, is not the case, as the same kinds of yarns are not produced by them, or only in a very limited extent, and even these do not make as handsome goods; nor is there any prospect of such machinery being made to produce suitable yarn, of number finer than 45 or 50 hanks per pound.

| Number of yarn in hanks, per pound. | Weight spun for a stated price, by one man, on mules. | Price paid for spinning said weight. | Amount of duty, at 15 cts. per lb., on one man's weekly work and wages, with his help. |
|-------------------------------------|-------------------------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------|
| 15                                  | 560 lbs.                                              | \$14 00                              | \$84 00                                                                                |
| 50                                  | 200                                                   | 14 00                                | 30 00                                                                                  |
| 60                                  | 140                                                   | 14 00                                | 21 00                                                                                  |
| 70                                  | 112                                                   | 14 00                                | 16 80                                                                                  |
| 80                                  | 87                                                    | 14 00                                | 13 05                                                                                  |
| 90                                  | 74                                                    | 14 00                                | 11 10                                                                                  |
| 100                                 | 64                                                    | 14 00                                | 9 80                                                                                   |

The prices stated in this table are those paid for spinning filling; more is paid for spinning twist, and the amount produced is less. The No. 15's also is put down at the prices which must be paid for spinning it on mules, though it can be spun as well, and much cheaper, as such machinery as is alluded to by H. Clay.

*Breck & Swift's Cotton Manufactory, Delaware.*

| QUESTIONS.                                                                           | ANSWERS.                                         |
|--------------------------------------------------------------------------------------|--------------------------------------------------|
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. Cotton; water power; 1,600 spindles 30 looms. |
| 3. When established, and whether a joint stock concern?                              | 3. Joint stock.                                  |

## DOCUMENT 16.—No. 2—Continued.

| QUESTIONS.                                                                                                                      | ANSWERS.                                                |
|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                 | 4. Capital invested in machinery, \$18,000.             |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                 | 5. Five hundred dollars per month.                      |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products? | 10. From eighteen to twenty hundred of cotton per week. |
| 12. Number of men, women, and children employed, and average wages of each class?                                               | 12. Sixty hands, average wages from 5 to \$6 per week.  |
| 13. How many hours a day employed; and what portion of the year?                                                                | 13. Twelve.                                             |
| 15. Number of horses, or other animals employed?                                                                                | 15. One horse.                                          |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                       | 16. Sent to Philadelphia.                               |

*J. B. Hutchinson's Cotton Manufactory, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. On Brandywine Creek, Newcastle county, State of Delaware.                                                                                                                         |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Cotton factory; water power.                                                                                                                                                      |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Established in August last; have four partners.                                                                                                                                   |
| 4. Capital invested in ground and buildings, and water power and in machinery?                                                                                                                                                                                                                       | 4. Water power, buildings, and land is E. J. Dupont's; is worth forty thousand dollars. Including some new machinery, now ready, and which is running, cost thirty thousand dollars. |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. Ten thousand dollars.                                                                                                                                                             |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. We have not been in operation one year, but at the end of the year, if average six per cent. clear, it is more than we expect. Not a dollar borrowed.                             |
| 7. Cause of the increase (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                               | 7. In a great measure it is the want of confidence in the Government to protect domestic industry.                                                                                   |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Our neighbors are not very willing to give us much information on that head.                                                                                                      |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. 175,000 lbs. cotton yarn, No. 10 to 15. No. 15 is worth 25 cents per lb.                                                                                                          |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                                                            | 10. 197,000 lbs. cotton, worth from 10 to 13 cents per lb.                                                                                                    |
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                                                                                                           | 12. Fifteen men, average \$6 30 per week; eighteen women, at \$2 12½ per week; forty-eight boys and girls, at \$1 43 per week.                                |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                                                           | 13. Twelve hours a day all the year, except fourth of July and Christmas.                                                                                     |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. Two horses.                                                                                                                                               |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                                                                                                  | 16. To Philadelphia, 31 miles from the factory.                                                                                                               |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. In the United States and South America.                                                                                                                   |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                                                                   | 19. Coarse cottons made from such yarn, to the East Indies, South America, &c.                                                                                |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Generally on a credit of from 60 days to four and six months, owing to the demand.                                                                        |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. See query nine.                                                                                                                                           |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. The present rate will guarantee it, but no less duty will.                                                                                                |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. See query six.                                                                                                                                            |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. Cotton costs from 10 to 13 cts.; waste and loss in manufacturing, two cents per lb; wages 8 to 9 cents per lb. Yarn No. 15 is worth 25 cents.             |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. Oil, leather, stone coal, lamps, iron, lumber, &c. &c. from 1,500 to \$2,000.                                                                             |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                    | 29. We should have to abandon it.                                                                                                                             |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                             | 30. Our capital is all employed in the machinery, and if we have to abandon it our machinery is worth nothing: therefore, we would have no capital to employ. |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                              | 31. I should have to turn politician, and look to Government for an office.                                                                                   |

DOCUMENT 16.—No. 2—Continued.

| QUESTIONS.                                                                                                                                                                                                       | ANSWERS.                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 33. Amount of capital, and what proportion the borrowed capital bears to that which is real?                                                                                                                     | 33. See queries No. 3 and 4.                                                                                                                                                                                                                                        |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent., and how gradual should the reduction be?                                        | 34. The present rate of duty will not do more; for the last three years it will not yield six per cent.                                                                                                                                                             |
| 35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum? | 35. If minimums should be abolished I should say there was no duty, for the market fluctuates so much, and when depressed the British agents would take advantage of it, and have them assessed at depressed prices; then there would be no safety in our business. |
| 37. Proportion which the production by the American manufacturers bear to the consumption?                                                                                                                       | 37. It exceeds the consumption.                                                                                                                                                                                                                                     |

BRANDYWINE, April 2, 1832.

J. B. HUTCHINSON &amp; CO.

ROSEVILLE, March 3, 1832.

DEAR SIR: I have endeavored to collect, as well as I was able, the information you require in yours of the 26th ult.

There are, in my neighborhood, five cotton factories, viz. one at Roseville, one on Pike creek, two in Staunton, and one on Red Clay creek: together, with a capital of \$114,000, 188 hands constantly employed, and 407 dependant, and consume 575,000 lbs. cotton annually, with 7,650 spindles.

There are, as near as I can judge, 104 males, and 84 females. The wages of the males will average \$4 per week, the females \$1 75.

I think this is as much as any committee ought to have; it is, at any rate, quite as much as I am willing to give.

Very respectfully,

Your obedient servant,

HARRY CONNELLY.

JOSHUA GILPIN, Esq.

ROSEVILLE FACTORY, March 31, 1832.

DEAR SIR: I must apologise for not having answered your last letter before this, but I anticipated the pleasure of seeing you, in which I have been disappointed. I will endeavor, however, to give you the information you request. There is invested in the factory at Roseville \$75,000; 3,850 spindles, and consume 230,000 lbs. per annum; 90 hands employed, and 165 dependant, wages \$11,700 per annum; the sales of yarn amount to \$58,500 per annum.

At Endecon, on Red Clay creek, \$16,000 capital; 1,400 spindles, consume 115,000 lbs. cotton; 40 hands, 84 dependant, wages \$4,160 per annum; sales \$22,800.

Pike Creek Factory \$10,000 capital; 1,200 spindles, consume 11,500 lbs. cotton; 22 hands and 50 dependant, wages \$4,160; sales \$22,800.

Eagle Factory, at Staunton, \$13,000 capital; 1,200 spindles, consume 115,000 lbs. cotton; 36 hands and 108 dependant, wages \$4,160; sales \$22,900.

Very respectfully,

Your obedient servant,

HARRY CONNELLY.

JOSHUA GILPIN, Esq.



*William Hilton & Son's Manufactory.*

We manufactured 68,200 yds. of Rouen cassimere, sold on an average for 16 cts., \$10,902.  
 135,000 lbs. cotton yarn, at 30 cents per lb., \$40,500.  
 Number of spindles 3,892; cost \$11 per spindle, including repairing machinery, \$42,812.  
 Twenty-eight power looms, at \$110, \$3,080.  
 Capital employed, \$10,000; real estate \$20,000.  
 The amount of cotton consumed 150,000 lbs., at 12½ cents, \$20,625.  
 Wool, for Rouen cassimere, 3,200 lbs., at \$1 16, \$3,712.  
 The number of hands 152; cost, \$13,152 25.  
 Ten per cent. loss on the manufacture of the above cotton and wool, \$2,433 70.  
 Commission on Rouen cassimere, \$1,090 20.  
 Thirty men, sixty-three young women, sixty-seven children under 18 years.

*Jacob Pusey's Cotton Manufactory, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. State of Delaware, Newcastle county.                                                                                                                                                                                                                                                                                                         |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Spinning cotton; 1,400 spindles; water power.                                                                                                                                                                                                                                                                                                |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. 1814; private property.                                                                                                                                                                                                                                                                                                                      |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                                                                                                                                                                                          | 4. Thirty thousand dollars.                                                                                                                                                                                                                                                                                                                     |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. When in full operation, about ten thousand dollars must be afloat in materials and manufactures on hand, and provisions for payment of wages.                                                                                                                                                                                                |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. The first seven years sunk all the capital, and the last ten years have recovered about two-thirds of it, though some of the last ten were years of loss. My books do not distinguish between the two kinds of capital.                                                                                                                      |
| 7. Cause of the increase (or decrease, as the case may be) of profit?                                                                                                                                                                                                                                | 7. Frequently by domestic competition the profits are reduced to cost and charges, and sometimes loss. Sometimes by over-importations of other descriptions of goods, such a press for money is felt in sea-ports as to put down the price of yarn, when the stock on hand was not greater than ordinary, and vice versa for increased profits. |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Not known to the writer.                                                                                                                                                                                                                                                                                                                     |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. From 70,000 lbs. to 100,000 lbs. cotton yarn per annum, the quantity varying according to demand, in some measure. It is difficult to ascertain the value per annum as the price has varied from 64 cents per lb. in 1814, to 18 or 20 cents in 1830 and '31.                                                                                |
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. Three hundred and fifty bales cotton valued for 1831 at \$10,500; all the product of the United States.                                                                                                                                                                                                                                     |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. Very little, if any, cotton yarn is imported as coarse as that spun at this factory.                                                                                                                                                                                                                                                        |

## DOCUMENT 16.—No. 2.—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12. Number of men, women and children employed, and average wages of each class?                                                                                                                                                                                                                                                           | 12. Six men; average \$6 each per week.<br>Twelve women; do 2 do.<br>Twenty-five children; do 1 25 do.                                                                                                                                                 |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                                                           | 13. Eleven hours, exclusive of meals, and about fifty weeks in the year.                                                                                                                                                                               |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                                                           | 14. Not known to me.                                                                                                                                                                                                                                   |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. Seven.                                                                                                                                                                                                                                             |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. A small portion sold at the factory; the remainder sent forty miles by land and water conveyance.                                                                                                                                                  |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                                                                 | 17. No foreign article is imported of like kind of latter years; home competition has settled that in a reduced price.                                                                                                                                 |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. In Pennsylvania, Delaware, and the southern and western States.                                                                                                                                                                                    |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                                                                   | 19. None of this kind exported until woven.                                                                                                                                                                                                            |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. Much the largest portion is sold on a credit, generally of six months, after having been in store sometimes three or four months.                                                                                                                  |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased, and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or labor, and at what rate?                                                                                     | 21. The cost decreased since 1814, both in material and labor; most in material, as labor has been rather higher since 1824; material has fluctuated, having been sold some years at 10 to 15 cents per lb., and other years at 25 to 30 cents per lb. |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. In 1814, 64 cents per lb.; gradually declining, it was in 1820, 28 cents; then advancing in 1822, was 34 or 35 cents, and declining till 1830 and '31, was 18 cents, except excited prices a few months in 1825.                                   |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. Not known.                                                                                                                                                                                                                                         |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Less than four per cent. clear of provision for proportionable repairs.                                                                                                                                                                            |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                               | 26. About one half for raw material, one-fourth for labor in the factory, one-twentieth, or sometimes one-fifteenth, might be profit; the balance is made up by contingent expenses, wastage, &c. &c.                                                  |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. \$2,000 of breadstuffs, meats, and vegetables; \$1,000 domestic dry goods and groceries.                                                                                                                                                           |

| QUESTIONS.                                                                                                                                                                                                                                                             | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                   | 28. No data <sup>as</sup> respects United States; upwards of 20,000 pounds of cotton yarn are produced in this county in one week: no other county in this State manufactures cotton.                                                                                                                                                                                                                                                                                                    |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent, with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. There can be no question but a present abandonment of business would ensue, as manufacturing at reduced prices would destroy the capital soon. All who could hold their property in an idle state a few years, would then do an excellent business under such prices both for material and manufactured goods, as British monopoly would then dictate, taken in connexion with the then low prices for bread and meat, caused by labor transferred from manufactures to agriculture. |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                         | 30. Under such circumstances, I should have no capital, purchasers for such property would not appear at any price; but admitting a very small amount could be realized, agriculture or merchandizing must be entered into in order to get bread.                                                                                                                                                                                                                                        |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                          | 31. It is believed total ruin would follow: and twenty-five cents per day for my manual labor would be better than nothing. Under such a duty, agriculture would soon be good for nothing, to a man wanting experience; as is the case with manufacturers generally.                                                                                                                                                                                                                     |

March 10, 1832.

JACOB PUSEY.

*Charles J. Dupont's Woollen Manufactory, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                                                          | ANSWERS.                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                           | 1. State of Delaware, Newcastle county. |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                | 2. Woollen; water power.                |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                             | 3. In 1811; not a joint stock concern.  |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                                                                                                                                                                                         | 4. Fifty thousand dollars.              |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                     | 5. Thirty thousand dollars.             |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. No profit.                           |

| QUESTIONS.                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7. Cause of the increase (or decrease, as the case may be,) of profit?                                                                                                                                                                                     | 7. Annual reduction in the manufactured articles, caused by over-trading of English manufacturers, frauds on the revenue, and the facility afforded by the Government by allowing credits on the duties.                                                                                                                                                                                 |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                             | 8. Supposed to exceed six per cent., as the banks loan their capitals at that rate of interest to merchants, agriculturists, and others.                                                                                                                                                                                                                                                 |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                      | 9. \$52,000; broadcloths, kerseys and satinetts; quality and value vary yearly.                                                                                                                                                                                                                                                                                                          |
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                                                                                                                            | 10. 60,000 lbs. of wool, 2,500 lbs. of indigo, 1,500 lbs. of glue, madder, alum, copperas and chemicals, dyewoods, &c.; value in American products over 80 per cent. on the amount manufactured.                                                                                                                                                                                         |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                            | 11. Foreign articles are reduced in value when they find a similar article of American manufacture to compete with it in the market; cloths of the description manufactured here have fallen considerably, whilst superfine cloths are sold for nearly the same they did ten years ago; flannels being extensively manufactured in the United States, have fallen more than 50 per cent. |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                          | 12. Sixty persons; men \$20 per month, women \$8, and children \$6.                                                                                                                                                                                                                                                                                                                      |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                           | 13. Twelve hours per day throughout the year.                                                                                                                                                                                                                                                                                                                                            |
| 14. Rate of wages of similar classes otherwise employed in the same State and county; in other States, and in foreign countries?                                                                                                                           | 14. Supposed to be equal to those employed at factories. In England the persons receive a portion of their support from the poor rates; men's wages said to be 50 per cent. less; the wages of women and children nearly equal the amount paid here, as there is greater diversity of employment for them.                                                                               |
| 15. Number of horses, or other animals employed?                                                                                                                                                                                                           | 15. Three horses.                                                                                                                                                                                                                                                                                                                                                                        |
| 16. Whether the manufactures find a market at the manufactory? if not, how far they are sent to a market?                                                                                                                                                  | 16. In Philadelphia and Baltimore, thence to the south and west.                                                                                                                                                                                                                                                                                                                         |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                 | 17. Foreign articles do enter into competition.                                                                                                                                                                                                                                                                                                                                          |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                   | 18. In the United States.                                                                                                                                                                                                                                                                                                                                                                |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                   | 19. Are not exported.                                                                                                                                                                                                                                                                                                                                                                    |
| 20. Whether the manufacture is sold by the manufacturer for cash? if on credit, at what credit? if bartered, for what?                                                                                                                                     | 20. Sold at six and eight months' credit; are usually four months in the hands of agents: the returns are seldom received under twelve months.                                                                                                                                                                                                                                           |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. The cost of manufactured articles has diminished considerably by the introduction of improved machinery the last four years: the price of the raw material has varied yearly.                                                                                                                                                                                                        |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                        | ANSWERS.                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>22. The prices at which the manufactures have been sold by the manufacturer since the establishment?</p>                                                                                                                                                                                                                                       | <p>22. Cannot answer; articles vary in every color and quality; it would be impossible to estimate exactly the relative value of cloths made since the commencement of the establishment: the description of woollens manufactured in the United States have fallen 50 per cent. since the tariff of 1816.</p>                     |
| <p>23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?</p>                                                                                                                                                                                                 | <p>23. The present duties are thought to be sufficient if properly enforced.</p>                                                                                                                                                                                                                                                   |
| <p>24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?</p>                                                                                                                                                                                                                                           | <p>24. Think if the duties were paid in cash, before the goods leave the custom-house, it would check over-trading.</p>                                                                                                                                                                                                            |
| <p>25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually?</p> | <p>25. See answer to question six.</p>                                                                                                                                                                                                                                                                                             |
| <p>26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?</p>                                                                                                                                                               | <p>26. The price of the raw material is generally considered one-half of the value produced, one quarter is paid in wages, one-quarter in interest on capital employed, cost of coloring, commissions and guarantee on sales, insurance, fuel, light, and wear and tear of machinery.</p>                                          |
| <p>27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?</p>                                                                                                                                                                                           | <p>27. Above 80 per cent. on the value.</p>                                                                                                                                                                                                                                                                                        |
| <p>28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?</p>                                                                                                                                                                                                       | <p>28. See report on wool and woollens of the New York Convention, which is supposed to be a moderate estimate of the capital employed.</p>                                                                                                                                                                                        |
| <p>29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?</p>                                                                    | <p>29. The woollen manufacture would cease to be pursued in the United States; the property thus vested in buildings, machinery, and water power, would pass into other hands at an immense sacrifice, and the consumers of woollen goods be at the mercy of English agents, who would have the entire control of the markets.</p> |
| <p>30. If it would cause you to abandon your business, in what way would you employ your capital?</p>                                                                                                                                                                                                                                             | <p>30. Our capital being invested in water power and fixtures, would be totally lost if forced to abandon the business.</p>                                                                                                                                                                                                        |
| <p>31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?</p>                                                                                                                                                                              | <p>31. Having no disposable capital left, would not seek other pursuits.</p>                                                                                                                                                                                                                                                       |
| <p>32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?</p>                                                                                                                                                | <p>32. Cannot answer.</p>                                                                                                                                                                                                                                                                                                          |

## DOCUMENT 16.—No. 2.—Continued.

| QUESTIONS.                                                                                                                                                                                                       | ANSWERS.                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 33. Amount of capital, and what proportion the borrowed capital bears to that which is real?                                                                                                                     | 33. See questions four and five; think it not relevant, the capital might be all borrowed, and should be entitled to the same protection whether owned by the persons engaged at the factory or not. |
| 34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of six per cent; and how gradual should the reduction be?                                       | 34. Cannot say; capital invested in the woollen business, with the present evasion of the tariff, does not yield six per cent.                                                                       |
| 35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum? | 35. The minimums are evaded; do not know to what extent.                                                                                                                                             |
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                                              | 36. Cannot answer.                                                                                                                                                                                   |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                      | 37. Suppose the American production of manufactured articles of all kinds to be triple the amount imported.                                                                                          |
| 38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?                                                                                 | 38. Uninformed on the subject.                                                                                                                                                                       |
| 39. Average profit of money or capital in the United States?                                                                                                                                                     | 39. Cannot answer.                                                                                                                                                                                   |
| 40. Average rate of wages?                                                                                                                                                                                       | 40. Uninformed on the subject.                                                                                                                                                                       |

PHILADELPHIA, April 18, 1832.

DEAR SIR: Being much engaged this spring, I had neglected answering your letters until this late date; my business being extremely onerous, must plead my excuse for not earlier attention, at least, to your letters. As it regarded the queries propounded by the Government, I had almost concluded to have passed them by unnoticed, as I could not but feel the improper, nay, almost indelicate tendency of many of them; and I believe that nothing but my highest respect for yourself could ever have induced me to alter my determination. Having two distinct, I might say three interests, they, necessarily, are blended with each other, and there is much difficulty to identify them separately with exactness, but in the aggregate will endeavor to approximate accuracy.

The Rockland estate embraces a considerable tract of land, including two or three farms, altogether, say about 500 acres of land; the principal part of their machinery has also been made on the spot. The amount of capital, from these circumstances, is necessarily enhanced a considerable sum over and above what might be deemed absolutely necessary for conducting the operations of the different branches. The capital invested was computed by the late Mr. Young, above \$130,000. The number of persons supported, directly and indirectly, including all ages, was the last census (taken by ourselves) at 278 souls, all told, and all of whom derive their main support from this property.

Of later years, having turned our attention more to the cotton manufacture, we have not driven on our woollen concern with that force and attention as formerly, the uncertainty of the business, (owing to the vacillating policy which continually threatened us,) held no inducement to those actuated by prudent motives, to extend their concerns. The amount of woollen goods now manufactured does not exceed \$30,000 per annum; this year it will not reach \$25,000; but this amount necessarily fluctuates as we bend our attention to a coarse or a fine fabric, as the case may be; but our machinery, buildings, power, &c., is fully capable, under certain encouragement, to manufacture double that amount.

In the cotton spinning mill, we have above 3,000 spindles, and employ 28 males and 38 females; when engaged in spinning such numbers of yarn as are suitable for the general market, the produce, per annum, would be about 150,000 pounds of yarn; but as we are calculated for a much finer article, principally about No. 40, the amount produced is about one-half the above sum, value about \$30,000, varying less or more as we spin finer or coarser. The average wages of males employed, is from \$1 50 to \$10 per week; of females, from 50 cents to \$4 50 per week; those persons receiving the highest wages occupy situations involving a certain degree of responsibility. In addition to our spinning mill, we have a weaving establishment for fine fabrics, principally the cambric muslins. This department, however, is only in its incipient state, having about thirty looms; the weavers, which are all females, earn about \$12 50 to \$18 per month, and the males (three in number) who attend to the preparatory operations, from \$4 50 to \$8 per week. As it is our intention (unless prevented by some untoward circumstances) to consume the entire product of the spindles, it is evident a comparatively small additional capital in machinery would be required to produce nearly double the annual result; and here I would remark, that this manufacture is the extreme line of protection under the present law, as there is no encouragement at present held out, for proceeding further and finer. Such, in fact, is the situation, that a small reduction from present duties would inevitably compel us to retrace our steps and recede upon our neighbors; whereas, should an increase of minimums in cotton take place, there would be a wide field for an extensive and new capital, and the price of the finer fabric would eventually fall, *pari passu*, with what we have witnessed in the coarser manufacture.

I speak understandingly, and wish to be understood literally: we have taken the inmates from the poor-house, and caused them to support themselves, and become respectable members of society. We have taken those who were broken down with sickness, had been dismissed by their former masters before the expiration of their apprenticeship, and made a burden to their parents; placed them in our establishment, enabled them first to support themselves, then a small family, and, in one instance, they have left more than \$1,000 at their decease. I would, likewise, beg leave to call your attention to another, and by no means an unimportant benefit conferred on the public. The property where our establishment is now located paid, when Henry Price was collector, 7s. 6d. currency, as the whole amount of taxes for the year: last season the amount of taxes paid by this property, and its inhabitants, was about \$400; and yet we are called the oppressors of the poor, the burden of the nation. I cannot but feel indignant and warm upon the subject, and hope you will excuse the excitement. I have thus endeavored to give you a small sketch of our establishment, and hope it may be found satisfactory.

Respectfully,

W. W. YOUNG.

JOSEPH GILPIN, Esq.

ANDOVER, Third Month 13, 1832.

RESPECTED FRIEND: To-day I went again to Delaware, and luckily found Alexander Murphy at home, from whom I obtained the statement upon the other side of this letter. Although it may not be precisely correct, yet I think it approximates pretty closely to it, and may answer thy purpose. It embraces all of the woollen concern in Kent county. Murphy says there are no manufactures of cotton whatever, that he knows of, nor do I know of any other operations carried on, that will fall within the scope of thy inquiries.

We have obtained the passage of a law from our Legislature, to construct a railroad from the head waters of the Chester to some suitable point on the Duck Creek, but did not get it through in time for the action of Delaware, this session. However, we shall be ready for the next; when, no doubt, the grant will be confirmed. Our object is to communicate directly with either New York or Philadelphia, but more particularly with the former city, where the leading articles of our production always finds a superior market. For several years past, the difference has more than covered the charge of freight; this track opened, we should have the free choice of three of the first cities in the Union for our trade, an object to us of incalculable advantage. The whole distance of the track cannot exceed sixteen miles in extent; and this, too, over a country already levelled by nature for the purpose, scarcely requiring the aid of an engineer; no railroad can be made at a cheaper rate than this, and, when looking at the whole ground, I am persuaded none will be more profitable; the lower Chesapeake can ascend to the east end of our rail as easily as it can go to Baltimore, and when there, will find a better price than Baltimore can give for grain and breadstuffs; even charge a tollage equal to the Ohio road, and there can be no parallel in cost between the two structures. All we want is, to be fully appreciated, and I should be much pleased if thy able pen could be engaged to aid our cause, by letting the public understand our project.

## DOCUMENT 16.—No. 2—Continued.

## WOOLLEN CONCERN.

*Alexander Murphy.*

Establishment, including water power, \$4,500; machinery employed, \$1,600; floating capital, \$300.

Manufactures kerseys and cassinets, 2,000 yards; fulfs for the country, annually, 3,000 yards; employs eight persons.

*Richard Holding.*

Establishment, including water power, \$3,500; machinery employed, \$1,600.

Manufactures of kerseys and cassinets, 1,500 yards; fulfs for the country, annually, 2,500 yards; floating capital, \$250; employs six hands.

*Ezekiel Cowgill.*

Carding machines, \$500; water power, \$150.

Cards 6,000 lbs. of wool, at seven cents per lb.

*Charles Steadham.*

About the same business as E. Cowgill, in everything.

Kerseys are worth 87½ cents per yard, and cassinets about 62½ cents per yard.

With my best respects to thyself and family,

Very truly, thy friend,

JOHN TURNER.

JOSHUA GILPIN, Esq.

LAUREN'S, May 1, 1832.

DEAR SIR: I have the pleasure to annex the following estimate of the value and productions of Mr. Sacristy's establishment:

Value of mill seat and buildings, \$7,000; do. of machinery, \$5,000; consumes 12,000 lbs. of wool, value about \$6,000; employs twelve hands, average wages, per annum, \$2,000; for dyeing drugs, oil, glue, &c. &c., about \$1,000; for cotton yarn for chain for satinets, \$800; manufactures 20,000 yards satinets, value net, \$10,000.

I have not been able to ascertain any facts as relates to Johnson, Clark, or Dougherty, but this; you can estimate them in your report at about half of the above exhibit.

I regret that, owing to my absence in Philadelphia, and the many engagements I have had to attend to, I could not fulfil my promise to you sooner.

I remain, with great respect,

Your obedient servant,

CHARLES J. DUPONT.

*William D. Waples's Iron Furnace, Sussex County, Delaware.*

| QUESTIONS.                                                                                      | ANSWERS.                                                                       |
|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                       | 1. Sussex county and State of Delaware.                                        |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?            | 2. Blast furnace, for converting bog ore into pigs and castings; water power.  |
| 3. When established; and whether a joint stock concern?                                         | 3. In the year 1817; an individual concern.                                    |
| 4. Capital invested in ground and buildings, and water power and machinery?                     | 4. Fifteen thousand dollars.                                                   |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages? | 5. Twenty-four thousand dollars per annum, for an eight or nine months' blast. |



## DOCUMENT 16.—No. 2—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                            |
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| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. The profits are derived from paying a part of the wages and raw materials in merchandise instead of cash; were it exclusively a cash business, it would be a losing concern; the profits were formerly greater than at present.  |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. Domestic competition.                                                                                                                                                                                                            |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. The employment of capital is very limited in this section of the State, and the profits on small are consequently greater than on large capitals; small capitals in active business, will probably yield from 10 to 15 per cent. |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. 600 tons of iron; 300 tons pigs, worth 30 to \$35; 250 tons castings, worth 50 to \$60; 50 tons scraps, worth 15 to \$18; a few years since pigs were brisk at \$40, and castings at 70 to \$80.                                 |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. 180,000 bush. charcoal, 5 cts \$9,000; 2,000 tons bog ore, at \$3 75, 7,500; 7,000 bushels oyster shells, \$500; hands' wages, \$7,000; \$24,000—all domestic.                                                                  |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. I cannot answer.                                                                                                                                                                                                                |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. 20 moulders, keepers, &c., \$5,000; 12 other furnace men, at \$20, \$2,000; \$7,000; 40 other hands whose wages are included in cost of ore and coal.                                                                           |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                     | 13. 24 hours per day, with a double set of hands; eight or nine months per annum.                                                                                                                                                   |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 14. Five to seven dollars and board and washing, for farming and other employments in this county.                                                                                                                                  |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. 28 to 32 horses.                                                                                                                                                                                                                |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                                                            | 16. Sent to the cities for a market.                                                                                                                                                                                                |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                           | 17. I believe not to any great extent.                                                                                                                                                                                              |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. Norfolk, Baltimore, Philadelphia, New York, Boston, Portland, and from there into every part of the interior county.                                                                                                            |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                             | 19. I believe not to any extent.                                                                                                                                                                                                    |
| 20. Whether the manufacture is sold by the manufacturer for cash? if on credit, at what credit? if bartered, for what?                                                                                                                                                                               | 20. Generally sold on a 12 months' credit to be paid in cash.                                                                                                                                                                       |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the material or the labor, and at what rate?                                            | 21. The cost of the manufacture has not decreased to any extent, while the prices have declined very considerably, say 25 per cent. within 10 years.                                                                                |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                               | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                     | 22. Answered in ninth query.                                                                                                                                                                                                                                                                                                                                                                      |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                               | 23. The duty ought to be such as to secure the market to the manufacturer; competition will reduce the prices as low as the foreign article of the same quality; it is not of so much consequence what the price is as that it should be steady; the manufacturer can conform to any price if there is a demand.<br>24. It has been so stated, but I am unable to speak advisedly on the subject. |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                         | 25. The profits, as before stated, are derived from the sale of merchandise for wages, &c., and are not large; perhaps from six to ten per cent. according to the demand for iron, on the whole capital actively employed.                                                                                                                                                                        |
| 25. What has been the rate of your profits annually for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 26. Raw materials 19 per cent., wages of labor 75 per cent., profit 6 per cent.                                                                                                                                                                                                                                                                                                                   |
| 26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?                                                                                                                                                             | 27. Agricultural productions, \$5,000; domestic do., \$10,000; cash, \$9,000; \$24,000.                                                                                                                                                                                                                                                                                                           |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                         | 28. I cannot say as to the United States: this is the only blast furnace in the State.                                                                                                                                                                                                                                                                                                            |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                     | 29. I really think the business must be abandoned in consequence of the ruinous fluctuations which would take place in the prices, and the want of a steady demand; the business is a heavy one, and can only be maintained by a constant demand.                                                                                                                                                 |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                                                                  | 30. Probably in agriculture, which is already overstocked; the class of consumers ought to be increased instead of diminished.                                                                                                                                                                                                                                                                    |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                                                                                           | 31. Perhaps not; for if manufactures must be crushed, agriculture and commerce must languish in the same proportion.                                                                                                                                                                                                                                                                              |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                                                                                            | 32. Forges on a small scale for making 25 to 30 tons of bar iron per year, and salt works on the sea coast, are probably in some degree remote from competition, but those concerns are too trifling, compared with the mass of the manufacturing interest, to make much of an exception.                                                                                                         |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                                                                                              | 33. Answered.                                                                                                                                                                                                                                                                                                                                                                                     |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                                                                                             | 34. I think a reduction of duties would not reduce the price, upon an average; it                                                                                                                                                                                                                                                                                                                 |

## DOCUMENT 16.—No. 2—Continued.

| QUESTIONS.                                                                                                                                                                                                       | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| played to yield an interest of six per cent., and how gradual the reduction should be?                                                                                                                           | would sometimes be lower and then higher, until the fluctuation would throw out the American manufacturer, and then prices would be uniformly higher. I consider it absurd to think of supplying ourselves with iron from abroad. We have the raw material sufficient to supply the world, totally useless naturally, and water power, enterprise, and skill to supply every demand that can be made upon us. |
| 35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum? | 35. I cannot answer.                                                                                                                                                                                                                                                                                                                                                                                          |
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                                                                                                              | 36. I cannot answer.                                                                                                                                                                                                                                                                                                                                                                                          |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                      | 37. This question is ably answered by others, and were I to answer it, I should merely quote from them.                                                                                                                                                                                                                                                                                                       |
| 38. Extent of individual or household manufacture in the United States, and how much it has increased since the tariff of 1824?                                                                                  | 38. I cannot answer.                                                                                                                                                                                                                                                                                                                                                                                          |
| 39. Average profit of money or capital in the United States?                                                                                                                                                     | 39. I cannot answer.                                                                                                                                                                                                                                                                                                                                                                                          |
| 40. Average rate of wages?                                                                                                                                                                                       | 40. I cannot answer.                                                                                                                                                                                                                                                                                                                                                                                          |

Very respectfully, yours, &amp;c.

WM. D. WAPLES.

*Jonathan Bonny & Co.'s Iron Foundry, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. Wilmington, Newcastle county, Delaware.                                                                                                                                                                                                |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Iron foundry, with steam power.                                                                                                                                                                                                        |
| 3. When established; and whether a joint stock concern?                                                                               | 3. January, 1831.                                                                                                                                                                                                                         |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. About \$20,000; iron castings, average price about five cents per pound.                                                                                                                                                               |
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?       | 10. 175 tons American pig iron, worth from 35 to \$40 per ton; from 20 to 40 tons Scotch pig, worth from 43 to \$48 per ton; about 50 tons old castings, worth from 15 to \$22 per ton; 200 tons Lehigh coal, worth about \$6 65 per ton. |
| 12. Number of men, women, and children employed; and average wages of each class?                                                     | 12. Fifteen men and boys; wages average about \$6 per week each.                                                                                                                                                                          |
| 13. How many hours a day employed, and what portion of the year?                                                                      | 13. Employment all the year; work about ten hours per day.                                                                                                                                                                                |

## DOCUMENT 16.—No. 2—Continued.

*Jonathan Bonny & Co.'s Iron Foundry, Delaware.*

| QUESTIONS.                                                                           | ANSWERS.                                                                                            |
|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| 1. Kind of manufacture?                                                              | 1. Iron foundry.                                                                                    |
| 2. Value of real estate, buildings and fixtures, occupied and used for the business? | 2. Eight thousand dollars.                                                                          |
| 3. Value of machinery, tools and apparatus, other than the fixtures?                 | 3. About five hundred dollars.                                                                      |
| 4. Average value of stock on hand and in the process of manufacture?                 | 4. Two thousand dollars.                                                                            |
| 5. Kinds and quality of articles manufactured?                                       | 5. Iron castings of every description.                                                              |
| 6. Value of articles manufactured?                                                   | 6. Average price about 5 cents per lb.                                                              |
| 7. Quantity of foreign materials used per annum?                                     | 7. Forty tons Scotch pig iron.                                                                      |
| 8. Value of foreign materials used per annum?                                        | 8. From \$43 to \$48 per ton.                                                                       |
| 9. Quantity of domestic materials used per annum?                                    | 9. 175 tons pig iron, and 50 tons scrap iron; 200 tons Lehigh coal.                                 |
| 10. Value of domestic materials used per annum?                                      | 10. Pig iron from \$35 to \$40 per ton, scrap from \$15 to \$22 per ton; coal worth \$5 65 per ton. |
| 11. Number of men employed?                                                          | 11. Fifteen.                                                                                        |
| 12. Whole number of persons subsisted, deriving direct support from the manufacture? | 12. From sixty to eighty.                                                                           |

*Mahlon Betts' Iron Foundry, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                      | ANSWERS.                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                       | 1. Wilmington, Delaware; Mahlon Betts, proprietor.                                                                                                                          |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                            | 2. Iron foundry; steam engine, three horse power.                                                                                                                           |
| 3. When established; and whether a joint stock concern?                                                                         | 3. Established about 1812 or 1813; a private concern; has been in the hands of the present proprietor since 1822.                                                           |
| 4. Capital invested in ground and buildings, and steam power and in machinery?                                                  | 4. Capital invested about \$7,850.                                                                                                                                          |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                 | 5. Eight thousand dollars.                                                                                                                                                  |
| 7. Cause of the increase (or decrease, as the case may be,) of profit?                                                          | 7. A considerable increase, occasioned by general prosperity of the manufacturing establishment located in the neighborhood.                                                |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products? | 10. Consume about 10,000 bushels coal, at 20 cents per bushel, and 250 tons of iron, about one-third of the latter imported from England; average price about \$35 per ton. |
| 12. Number of men, women, and children, employed, and average wages of each class?                                              | 12. Employ about 18 men.                                                                                                                                                    |
| 13. How many hours a day employed, and what portion of the year?                                                                | 13. About ten hours per day.                                                                                                                                                |

## DOCUMENT 16.—No. 2—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                  | 16. Work made to order.                                                                                                  |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                 | 17. Very little foreign competition except railroad work.                                                                |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                   | 18. In the neighborhood.                                                                                                 |
| 20. Whether the manufacture is sold by the manufacturer for cash? if on credit, at what credit? if bartered, for what?                                                                                                                                     | 20. Nearly all sold on credit at from six to twelve months.                                                              |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. The cost of manufacturing has been lessened by a fall in price of the materials used, and expense in the operations. |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                       | 22. The price of small castings has fallen from 9 to 5 cents, and large from 6 to 4½ per pound.                          |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                 | 23. No similar articles imported.                                                                                        |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                             | 30. Live on it until it is gone, then get an office in the Government; can't farm.                                       |
| 32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?                                                                | 32. Railroads and canals will soon reach the most remote point in our country at which those articles are wanted.        |

*Allen Wood's Rolling Mill, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. State of Delaware, Newcastle county.                                                  |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Rolling mill for iron and steel, by water power.                                      |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. In August, 1826; not a joint stock concern.                                           |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                                                                                                                                                                                      | 4. Eight thousand dollars.                                                               |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. Seven thousand dollars.                                                               |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. Twenty per cent. on the whole amount capital invested per annum; no borrowed capital. |

## DOCUMENT 16.—No. 2—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                    | 7. Rather a decrease of profit since the concern was established, the cause of which is competition at home.                                                                                                                                                                                                                                                                                                                                       |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                             | 8. Twenty per cent. profit on \$4,000 capital employed in the stove business, in Wilmington, Delaware.                                                                                                                                                                                                                                                                                                                                             |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                      | 9. 40 tons sheet iron, at \$150 per ton, \$6,000; 750 doz. shovels and spades, average at \$6, \$4,500; 150 steel hoes, at \$3, \$450; 110 tons of steel, rolled for mill, cross-cut, pit, and other saws, shovels and spades, &c., \$35 per ton, \$3,850; 23 tons iron rolled for shovels and spades, at \$35 per ton, \$805; 4,500 lbs. gin saw steel, made at 12 cts. per lb., \$540; 3,000 lbs. cast steel, rolled at 4 cts., \$120, \$16,265. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                            | 10. 60 tons American bar iron, at \$90, \$5,400; 30 tons American steel, at \$120, \$3,600; 7,000 feet ash plank, at \$20, \$140; 150 tons anthracite coal, at \$6, \$900; 200 bushels Virginia coal, at 30 cts., \$60, \$8,900.                                                                                                                                                                                                                   |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                          | 12. Ten men, at \$1 per day.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                           | 13. Twelve hours per day, for ten months in the year.                                                                                                                                                                                                                                                                                                                                                                                              |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                            | 15. Seven horses employed.                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                  | 16. A very small quantity is sold at the manufactory; almost all sent to Philadelphia, from thence to other parts, say from 20 to 1,000 miles to market.                                                                                                                                                                                                                                                                                           |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                 | 17. Foreign articles do enter into competition at such places to considerable extent.                                                                                                                                                                                                                                                                                                                                                              |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                   | 18. In the different States of the Union; at least one-half are consumed in the southern States.                                                                                                                                                                                                                                                                                                                                                   |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                  | 19. Not by the manufacturer: I think some are bought for exportation for South America.                                                                                                                                                                                                                                                                                                                                                            |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                 | 20. Small sales for cash, but mostly at six months' credit.                                                                                                                                                                                                                                                                                                                                                                                        |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. But little variation in the cost of the articles manufactured since the concern was established; rather a decrease in the cost of materials; no decrease in the cost of labor.                                                                                                                                                                                                                                                                 |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                       | 22. In 1826 sheet iron at \$170 per ton, and 1827, '28, and '29, \$170 to \$165 per ton; 1830, '31, and '32, \$160 to \$150 per ton; other articles, in about the same proportion, have fallen in price.                                                                                                                                                                                                                                           |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                 | 23. The present duty on sheet iron, with an additional duty of 20 per cent., would do; on the other articles manufactured there is sufficient.                                                                                                                                                                                                                                                                                                     |

## DOCUMENT 16.—No. 2—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                        | ANSWERS.                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?</p>                                                                                                                                                                                                                                           | <p>24. A change is necessary to prevent John Sarchett, and others, from having chain cable iron cut into links, and brought in under the proper duty; chain cable iron is bolt bar iron in short or long pieces.</p>                                                                                                       |
| <p>25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually?</p> | <p>25. From 15 to 20 per cent. on the whole amount of capital.</p>                                                                                                                                                                                                                                                         |
| <p>27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?</p>                                                                                                                                                                                           | <p>27. From 30 to 40 bushels flour per annum, 2,500 to 3,000 lbs. beef and pork, 10 tons hay, 400 bushels oats and corn, 30 bushels potatoes and turnips, various cotton and woollen goods, &amp;c.</p>                                                                                                                    |
| <p>28. What quantity or amount of manufactures, such as you make, are produced in the United States; and what amount in your own State?</p>                                                                                                                                                                                                       | <p>28. I should think, from my own knowledge, there were 20,000 dog shovels and spades made in the United States, and perhaps as many more that I have no knowledge of; sheet iron, to the best of my knowledge, I would say 2,000 tons: the other articles no idea; the only establishment of the kind in this State.</p> |
| <p>29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?</p>                                                                    | <p>29. We should have to abandon the sheet iron business if such reduction was made.</p>                                                                                                                                                                                                                                   |
| <p>30. If it would cause you to abandon your business, in what way would you employ your capital?</p>                                                                                                                                                                                                                                             | <p>30. Loan it at 5 or 6 per cent., buy bank stock, or employ it in electioneering for a good fat office.</p>                                                                                                                                                                                                              |
| <p>31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?</p>                                                                                                                                                                              | <p>31. There are many.</p>                                                                                                                                                                                                                                                                                                 |

ALLEN WOOD.

*Jacob Alrichs & Son, Machinists, Newcastle County, Delaware.*

| QUESTIONS.                                                                                  | ANSWERS.                                                                                         |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <p>1. State and county in which the manufacture is situated?</p>                            | <p>1. State of Delaware, Newcastle county.</p>                                                   |
| <p>2. Kind or description of the manufactory; and whether water, steam, or other power?</p> | <p>2. Shops for making machinery for manufacturing cotton, wool, &amp;c.; by steam.</p>          |
| <p>3. When established; and whether a joint stock concern?</p>                              | <p>3. Established in 1808, by Alrichs &amp; Dixon, now conducted by Jacob Alrichs &amp; Son.</p> |

## DOCUMENT 16.—No. 2—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 4. Capital invested in ground and buildings, and water power, and machinery?                                                                                                                                                                                                                         | 4. Ground and buildings \$3,500; machinery about \$4,000.                                       |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. About ten thousand dollars annually.                                                         |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. About eight per cent. on that not borrowed; two per cent. on borrowed.                       |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                              | 7. By encouragement or depression of cotton and wool manufactures.                              |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. About \$12,000 worth; \$10,000 cotton machinery, \$2,000 wool machinery, and other articles. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. About 30 tons best American iron, and one ton common English iron.                          |
| 11. Cost in the United States of similar articles of manufactory imported from abroad, and from what countries?                                                                                                                                                                                      | 11. None imported that we know of, for the last three or four years.                            |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. About 20 men, at \$1 25 per day; about 5 boys, at 50 cents per day.                         |
| 13. How many hours a day employed; and what portion of the year?                                                                                                                                                                                                                                     | 13. Ten and a half hours a day, all the year.                                                   |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                                                                     | 14. About the same.                                                                             |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. None.                                                                                       |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                                                            | 16. At the establishment.                                                                       |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                           | 17. Not any imported that we know of, for the last three or four years.                         |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. Within sixty miles round the establishment.                                                 |
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                                                            | 19. Others, in Pennsylvania, have made machinery for South America and Mexico, but we have not. |
| 20. Whether the manufactory is sold by the manufacturer for cash? and, if on credit, at what credit? If bartered, for what?                                                                                                                                                                          | 20. Cash.                                                                                       |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                          | 21. Increased in cost by being made more perfect; price about the same.                         |



*McClary & Bush, Machinists, Newcastle County, Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                                                                  | 1. Delaware, Newcastle county.                                                                                                                                      |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                                                       | 2. Cotton and woollen machinery, steam engines, and railroad cars; steam power.                                                                                     |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                                                                    | 3. September, 1828; a company, consisting of two persons.                                                                                                           |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                                                                                                                                                                                                                                | 4. Six thousand dollars.                                                                                                                                            |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                                                            | 5. Three thousand five hundred dollars.                                                                                                                             |
| 7. Cause of the increase, (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                                                                    | 7. The American system, as it now exists, is the cause of increase; if abandoned for a system of slavery, it would be a cause of ruin.                              |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                                                          | 12. Sixteen men, five boys; \$1 12½ for men.                                                                                                                        |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                                                           | 13. Eleven hours; all the year.                                                                                                                                     |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                                                                                                  | 16. The general market within 100 miles, but confined to no particular market.                                                                                      |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                                                                 | 17. Existing duties protect us from foreign competition.                                                                                                            |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                                                                   | 19. Articles of similar manufacture have been exported to South America.                                                                                            |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                 | 20. On credit when the <del>millers</del> let us and the tariff alone; for cash when they wish their negroes free—not from slavery, but from the fear of Americans. |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased, and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                 | 21. See speeches on nullification and disunion.                                                                                                                     |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. The rate now existing.                                                                                                                                          |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. Patriots for collectors, not office-hunters.                                                                                                                    |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. All the profits have been retained for capital and contingencies.                                                                                               |
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent, with a cor-                                                                                                                                                                                                                 | 29. We would abandon the business.                                                                                                                                  |

DOCUMENT 16.—No. 2—Continued.

| QUESTIONS.                                                                                                                                                    | ANSWERS.                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| responding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?                 |                                                                              |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                | 30. Probably in learning the art of living as a southern nabob.              |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.? | 31. We know of nothing except selling drugs in the swamps of South Carolina. |

WILMINGTON, *Third Month* 29, 1832.

RESPECTED FRIEND: As thou requested me, I have taken the pains to examine my books to ascertain the amount of iron of the various kinds sold by me in the year 1831, and find that I have sold, of sheet iron, band iron, bar iron, plough castings and scrap iron, rather more than 159 tons, valued together at \$15,366; steel, of various kinds, 9,287 lbs., \$1,558; and cut nails, made at our own factory, 32,000 lbs., at about \$4,840; and during the year I sold of bituminous or Virginia coal, 9,350 bushels; and of charcoal over 10,000 bushels. Edward Gilpin can furnish thee with the amount of his sales, from which, with my account, a pretty accurate calculation can be made of the amount of iron and coal used in this county; although, no doubt, part of what we sell goes into Delaware and Chester county, and a small portion into Maryland, but I think four-fifths of all the iron sold in this place is worked in Newcastle county. Wood & Reeves have used, within the last year, iron and coal to the amount of \$2,500 alone. George Hodgson, I expect, nearly as much. I have very little knowledge of the furnace in the lower part of this State, but suppose that it must have made, of stove plate, and pig metal, hollow pipe, &c., about 900 tons. Wood, at their rolling mill, on Red Clay Creek, must have rolled, of iron and steel, 200 tons during last year. This is the substance of what information I can give thee at this time.

JOSUEA GILPIN.

Thy friend,  
THOMAS GARRETT.

BRANDYWINE PAPER MILLS.

STATISTICAL ESTIMATE OF THE MANUFACTURES OF DELAWARE—CONTINUED.

*Newcastle County*—Continued.

Brandywine Creek: The Brandywine paper mills, late G. & T. Gilpin, now owned by the Brandywine Manufacturing Company.

Water power employed:

|                                                              |   |   |   |   |   |   |         |          |
|--------------------------------------------------------------|---|---|---|---|---|---|---------|----------|
| Value of estate                                              | - | - | - | - | - | - | -       | \$75,000 |
| machinery                                                    | - | - | - | - | - | - | -       | 25,000   |
| Employ three paper engines; one paper machine.               |   |   |   |   |   |   |         |          |
| Consumes, annually, 100 tons rags, (fine:) value of the rags | - | - | - | - | - | - | -       | 26,000   |
| Capital employed in the current business                     | - | - | - | - | - | - | -       | 50,000   |
| Employs 30 men, at \$300 per annum,                          | - | - | - | - | - | - | \$6,000 |          |
| 10 boys, 150 do.                                             | - | - | - | - | - | - | 1,500   |          |
|                                                              |   |   |   |   |   |   | 7,500   |          |
| 50 women and children                                        | - | - | - | - | - | - | 3,500   |          |
|                                                              |   |   |   |   |   |   | 11,000  |          |
| T. G.                                                        | - | - | - | - | - | - | 2,000   |          |
| G. G.                                                        | - | - | - | - | - | - | 1,000   |          |
|                                                              |   |   |   |   |   |   | 3,000   |          |
| Extra wages of laborers, carpenters, &c.                     | - | - | - | - | - | - | 1,000   |          |
|                                                              |   |   |   |   |   |   | 15,000  |          |
| Interest on \$150,000, capital and estate                    | - | - | - | - | - | - | 9,000   |          |
| Value of paper made annually                                 | - | - | - | - | - | - | 60,000  |          |

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Hours of work, winter and summer, average 11½ hours.

School on the estate to school the children, and night school for the people in winter.

Pays an interest over six per cent. on the capital, after paying commission and all expenses.

Paper sent to Philadelphia, where it is sold at our warehouse, or sent to our customers through all the United States.

The paper we make we sell at a less price than the same quality of paper could be sold at here, imported from Europe under any tariff which has existed since the establishment of the Government. But we have been occasionally interfered with when the inferior and other papers have been brought here from the south of Europe, and sold at reduced prices. These have been consumed here, greatly to the injury of our regular business; the quality did not suit the market, and had to be sold the lower on this account.

We could not turn the establishment to any other object, as many of our people have been brought up to this manufacture only, and have lived here from 20 to 30 years.

Whole population, 200 persons.

Establishment begun in 1787, and has continued ever since unremittingly.

Paper is demanded and sent to Mexico and the West Indies.

From the introduction of the most perfect machinery and workmen, and an experience in the business during the long period since its establishment, we have so economized in its various processes as to furnish paper suited to every demand of the country, lower than the same qualities are furnished to the public of any country in any part of the world. But in doing this, we have had to meet very great competitions, and our profits, per centum, are reduced to very near the interest on the capital. It therefore requires that we should be protected from those occasional interferences which arise from the artifices of trade, speculation, or adventure, which are occasionally made, by which our home market has been taken from us, our business deranged, and from an over-supply of markets abroad, foreign papers forced upon us.

In proportion as we work low, our advantages are small, and we are deprived of the means of sustaining a loss, or even the delay of our regular sales. At times when we have suffered from an extra importation, it has taken a long time to recover from the effects of it, and it has frequently produced a derangement of our business almost threatening an annihilation of the establishment.

BALTIMORE, *March 19, 1833.*

DEAR SIR: I am favored with yours of the 17th instant, and note its contents. I am just on the eve of leaving home, and shall not be able to go into detail on the queries submitted; but having recently answered some of the leading ones, from a committee of the New York Convention, I recollect them sufficiently to give them to you briefly.

We manufacture at our mill on White Clay creek, about \$22,000; employ in the interior of our mill 34 hands, 8 men, the remainder are women, girls, and boys; the wages to these is \$5,000 per annum; and to persons employed around the establishment, and to other citizens, about 2,500 to \$3,000. Of the families employed in the works, there is about 70 persons, large and small, besides the 34, in all, 104. We use, almost exclusively, American rags; the cost \$11,000. We estimate the value of our works at \$18,000, besides the firm; capital employed \$20,000, total \$38,000.

In haste, your friend,

WM. METEER.

P. S. Specific is preferable to an ad valorem duty. I am not prepared to say what reduction would bring the foreign in competition with the domestic; but the capacity of the country is quite sufficient to meet all its wants; the quantity produced has increased within ten years more than 25 per cent., and the price has fallen quite 20 per cent. I regret that I am not at leisure to enlarge on this subject. If the tariff is not sustained, the nation is ruined.

W. M.

## DOCUMENT 16.—No. 2—Continued.

*E. J. Dupont's Answer to the Queries received from the Secretary of the Treasury.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. State of Delaware, Newcastle county.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Gunpowder; water power.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. In 1804; several partners.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 4. Capital invested in ground and buildings, and water power, and machinery?                                                                                                                                                                                                                         | 4. The manufacture having been gradually and progressively enlarged out of its profits, ever since its establishment, the whole amount of capital invested cannot be calculated. The present value of the land, buildings, water power, and machinery, may be estimated at \$80,000. This estimation is based on the supposition of the continuation of the prosperity of the country; should the protection be withdrawn, American labor must take its level with the labor of the manufacturing countries in Europe, and the value of American produce and real estate must fall in the same proportion. |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. The average amount of capital involved as stock in trade, comprehending the materials on hand, and purchased at credit from the importers, is estimated at \$100,000. The materials purchased at a credit have been included in this estimate, being an important item in the necessary means for the carrying on of the manufacture; and being, in fact, a part of the capital involved, no matter to whom it belongs.                                                                                                                                                                                 |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. As stated in answer to query No. 4, a large portion of the profits has been applied to the increase of the establishment, and to secure its permanency by improvements, from which the annual rate of profits cannot be calculated. A large proportion of the profits have been sunk in rebuilding the works after extensive explosions. The rate of profits should be the same on capital borrowed or not borrowed; the real capital, as well as the borrowed, is entitled to interest, before any part of the proceeds can be called profit.                                                          |
| 7. Cause of the increase (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                               | 7. The price of gunpowder in the United States being at this time entirely regulated by the great competition existing between the American manufacturers; the only causes of increase or decrease of profit, or of losses, consist in the degree of skill of the manufacturer, and the proper management of the business.                                                                                                                                                                                                                                                                                 |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. We do not know.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. The amount of gunpowder manufactured annually by us, is at this time about 850,000 pounds. The quantity made since the establishment of the manufacture to the present time, is about 13,400,000 pounds.                                                                                                                                                                                                                                                                                                                                                                                                |

## DOCUMENT 16.—No. 2—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                            | 10. The quantity of materials used is about 400 tons of crude saltpetre, imported from India; 50 tons of brimstone, from France or Italy; and 300 cords of wood, for charcoal. The cost of saltpetre is at this time about 7 cents per pound, brimstone $2\frac{1}{2}$ to 3 cents.                                                                                                                                                  |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                            | 11. We do not know.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                          | 12. About 140 men working in the mills, laborers, carters, coopers, &c. &c.                                                                                                                                                                                                                                                                                                                                                         |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                           | 13. Twelve hours in summer, and nine in winter, averaging during the year, eleven hours per day.                                                                                                                                                                                                                                                                                                                                    |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries?                                                                                                                           | 14. We do not know.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                            | 15. Two teams of five horses each, for the hauling of materials and produce, and several horses for other purposes.                                                                                                                                                                                                                                                                                                                 |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                  | 16. The manufactured articles are sold on the orders of customers, or sent to agents, for sale in different parts of the United States.                                                                                                                                                                                                                                                                                             |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale; and to what extent?                                                                                                                                 | 17. At the time of the establishment of our manufactory in 1804, the country was supplied almost entirely from England and from Holland. At this time we do not know of any foreign importation, except at Boston, and that to a trifling amount.                                                                                                                                                                                   |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                   | 18. Entirely for home consumption in the United States.                                                                                                                                                                                                                                                                                                                                                                             |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                   | 19. None from our manufactory, but a large quantity of gunpowder is manufactured in the United States for exportation to the West Indies, South America, and the western coast. The quantity exported annually is about 1,200,000 pounds.                                                                                                                                                                                           |
| 20. Whether the manufacture is sold by the manufacturer for cash? if on credit, at what credit? if bartered, for what?                                                                                                                                     | 20. A portion of the sales are made for cash; the rest on a credit of four to six months.                                                                                                                                                                                                                                                                                                                                           |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased, and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. The variations in the cost of materials have been great since the establishment of the manufactory. Saltpetre from 40 cents per pound at one time, to 5 cents at another; brimstone from 12 cents to 2. The cost of the manufactured article has been gradually and considerably decreased by improvements in the process of manufacturing, and by the introduction of machinery.                                               |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                       | 22. At the time of the establishment of our manufactory, the country was, as stated before, supplied principally with imported gunpowder. The importers had then the regulation of the price, which kept steady for years at 40 cts. per pound; during 1804 and 1805, our powder brought the same price, say 40 cents. In 1806 American competition began to be felt, and the price was reduced to 36 cents. In 1807, from the same |

## DOCUMENT 16.—No. 2—Continued.

| QUESTIONS.                                                                                                                                                                                | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?</p>                                         | <p>cause it fell to 34 and 32. During the non-intercourse, embargo, and war, the scarcity and high price of materials, and the extent of the demand, raised the price gradually to 44, 60, and 72 cents. A number of large manufactories having then been put in operation, the price during the last year of the war was reduced to 56 cents. Extensive home competition has since reduced the price of our powder to be, at this time, from 16 to 20 cents; and inferior powder, for blasting, and for exportation, sells as low as 12 to 14 cents per pound.</p>                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p>24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?</p>                                                                                   | <p>23. The encouragement given to the manufacture of gunpowder by the war, and the protection it has received from the tariff, have placed the home market entirely in the hands of the American manufacturers, and made gunpowder an article of exportation. The price of saltpetre is now higher in England than in the United States, and powder could not be imported at this time, even duty free. The duty is therefore merely nominal; nobody pays it; but, nevertheless, the present high duty is indispensable for the security and permanency of this branch of manufacture, and as a safeguard to the American manufacturer against the fluctuations of the market in Europe. Were it not for the protective duty, our market would occasionally be glutted by immoderate importations; the situation of the American manufacturer would become precarious, and, in course of time, inevitable ruin would follow.</p>                                                        |
| <p>25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the in-</p> | <p>24. The duty on gunpowder being specific, is the best kind of duty. The propriety of allowing the drawback on imported powder is, however, doubted; the manufacture of American gunpowder being so extensive as to furnish an annual exportation of about one million of pounds, there could not be any motive to encourage by the prospect of drawback, an importation of English damaged and low-priced powder, which of late years has not been more than from 50 to 70,000 pounds. Would it not be more to the interest of our commerce to import an adequate quantity of saltpetre from India, and brimstone from Italy, the freight of which would exceed the freight on the powder from England, and which would be imported on American accounts, while the powder in most cases is sent here by the British owners, not finding sale in their own market for a damaged or inferior article?</p> <p>25. Public interest does not seem to us to have any concern in this.</p> |

| QUESTIONS.                                                                                                                                                                                                                                                                     | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>come of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually?</p>                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p>26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?</p>                                                                                            | <p>26. The mere cost of materials and amount paid for labor, would give a very erroneous idea of the profits of any manufacture. The interest of capital, numerous contingent expenses, the repairs of machinery, the chance of losses, &amp;c. &amp;c. ought also to be calculated.</p>                                                                                                                                                                                         |
| <p>27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?</p>                                                                                                                        | <p>27. The subsistence of the men employed, and of their families, and of all those indirectly supported from the manufacture, are agricultural productions. The same number of persons manufacturing the article in Europe, would not consume a single pound of American produce.</p>                                                                                                                                                                                           |
| <p>28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?</p>                                                                                                                                    | <p>28. We believe the quantity of gunpowder manufactured annually in the United States to exceed six millions of pounds.</p>                                                                                                                                                                                                                                                                                                                                                     |
| <p>29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?</p> | <p>29. We should not abandon our business immediately. The prices of our produce could not at this time be reduced by importation; the principal material, saltpetre, being higher in Europe than here. But, as explained in our answer to query No. 23, inevitable ruin would, at some future time, be the consequence of the withdrawing of protection.</p>                                                                                                                    |
| <p>30. If it would cause you to abandon your business, in what way would you employ your capital?</p>                                                                                                                                                                          | <p>30. A capital employed in manufacture, consisting principally in water power, buildings, and machinery; the consequence of a reduction of the tariff which would cause the business to be abandoned, would amount to nearly a total loss of the capital.</p>                                                                                                                                                                                                                  |
| <p>31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?</p>                                                                                                           | <p>31. In this case it is difficult to say what would be best to do; if protection be withdrawn, a great change will take place in commercial and agricultural business as well as in manufactures.</p>                                                                                                                                                                                                                                                                          |
| <p>32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?</p>                                                                             | <p>32. The circle within which the manufacturers of salt and iron, remote from the point of importation, are secured against foreign competition, cannot be specified. When the manufactures are not protected by sufficient duties, the circle extends or contracts in proportion to the fluctuations of the European market, or in consequence of the manufacturers in Europe overtrading themselves, as has been of late the case in England for the manufacture of iron.</p> |
| <p>33. Amount of capital; and what proportion the borrowed capital bears to that which is real?</p>                                                                                                                                                                            | <p>33. It makes no difference if a capital involved in a manufactory is borrowed or not. The capital is there, and subject to all risks no matter who owns it.</p>                                                                                                                                                                                                                                                                                                               |
| <p>34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; and how gradual should the reduction be?</p>                                                                                               | <p>34. Besides the six per cent. for interest, a capital employed in manufacture must produce enough to keep the works and machinery in repair, and to insure against fire.</p>                                                                                                                                                                                                                                                                                                  |

## DOCUMENT 16.—No. 2—Continued.

| QUESTIONS.                                                                                                                                                                                                       | ANSWERS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 35. If minimums should be abolished, and the duty assessed upon the actual value of the imported article in the American port, what rate of ad valorem duty would be equivalent to the present with the minimum? | and against bad debts; otherwise the business would soon be at an end. It must, besides, offer to the manufacturer a reasonable compensation for his industry. Any one can place his capital at six per cent., and enjoy a much easier life than that of a manufacturer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 36. What should be the operation of this change upon the frauds at present supposed to practised?                                                                                                                | 35 & 36. If the actual value of the imported article in the American port could be fairly established, it would most assuredly be a preferable base for the assessment of duty to the present system of fabricated invoices. It would, however, have the effect of reducing the duty in case of over-large importations, and of increasing it when the market would be bare. Cash duties would be the most salutary change, as it would prevent the most ruinous of all importations, those made for account of British merchants or manufacturers, who are induced by the credit on duties to send here any article, of which the sale at home would be injurious to their own market, and which they had better export, no matter what price it will bring. |
| 37. Proportion which the production by the American manufacturers bears to the consumption?                                                                                                                      | 37. Almost the whole consumption of gunpowder in the United States is supplied from American manufactures; the small quantity imported being principally re-exported for the sake of drawback.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824?                                                                                 | 38. We do not know.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 39. Average profit of money or capital in the United States?                                                                                                                                                     | 39. We do not know.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 40. Average rate of wages?                                                                                                                                                                                       | 40. We do not know.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

E. J. DUPONT DE NEMOURS &amp; CO.

ELKTHURIAN MILLS, April 12, 1832.

BEAUFORT, March 9, 1832.

DEAR SIR: I regret that it was not in my power to make a speedier answer to your queries. I now enclose it to you, wishing you to present my best respects to the ladies, and to believe me, very sincerely,

Your obedient servant,

J. P. GARRESCHÉ.

JOSHUA GILPIN, Esq.

J. P. Garresché's Gunpowder Manufactory, Newcastle County, Delaware.

| QUESTIONS.                                                                           | ANSWERS.                             |
|--------------------------------------------------------------------------------------|--------------------------------------|
| 1. State and county in which the manufactory is situated?                            | 1. Delaware, Newcastle county.       |
| 2. Kind or description of the manufactory; and whether water, steam, or other power? | 2. Gunpowder; steam and horse power. |



| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3. When established; and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Private concern; begun in 1819.                                                                                                                                                               |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                                                                                                                                                                                          | 4. About twenty-five thousand dollars.                                                                                                                                                           |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. About thirty-three thousand dollars.                                                                                                                                                          |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. From 12 to 15 per cent., on the first cost, when exempt from explosions and risks, which cannot be insured.                                                                                   |
| 7. Cause of the increase (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                               | 7. The profits have varied but little since 1820; the fluctuation in the price of saltpetre may be considered as the only cause; the price of the manufactured article not keeping pace with it. |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. I have not sufficient data to answer this question with any degree of precision.                                                                                                              |
| 9. Amount of articles annually, manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                               | 9. About 250,000 lbs. annually.                                                                                                                                                                  |
| 10. Quantity and value of different kinds of raw materials used, distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. The saltpetre and sulphur are the only foreign articles employed.                                                                                                                            |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. The only imported powder that I know of, is the English sporting powder, which is retailed at a higher price than mine, though not any better.                                               |
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                    | 12. From 21 to 23 men are employed; women and children are not employed in this business, except for stripping the willows of its bark; lowest wages \$17 per month.                             |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                     | 13. From sun to sun all the year round.                                                                                                                                                          |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                      | 15. About ten horses and two pairs of oxen.                                                                                                                                                      |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                                                                                                                                                                                            | 16. The powder is sent to different parts of the Union, either to agents or purchasers; a portion is exported to the West Indies; a small portion only is sold at the factory.                   |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                             | 18. Answered above.                                                                                                                                                                              |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                             | 19. Already answered.                                                                                                                                                                            |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                                                           | 20. Principally on a credit of six to twelve months.                                                                                                                                             |
| 21. Whether the cost of the manufactured article (to the manufacturer,) has increased or decreased; and how much in each year, from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                         | 21. The cost has gradually declined owing to a substitution of machinery for manual labor. The price of labor has declined in a greater proportion from competition.                             |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                 | 22. In 1819 powder was sold at about 38 cents per pound; I allude to the best quality; it has been reduced to its present value by a gradual fall.                                               |

## QUESTIONS.

23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?

24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?

25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually?

26. What portion of the cost of your manufactures consists of the price of the raw material, what portion of the wages of labor, and what portion of the profits of capital?

27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?

28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?

29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices?

30. If it would cause you to abandon your business, in what way would you employ your capital?

31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?

32. Are not the manufactures of salt and iron remote from the points of importation, out of foreign competition within a certain circle around them, and what is the extent of that circle?

33. Amount of capital, and what proportion the borrowed capital bears to that which is real?

34. What amount of reduction in the duties would enable the actual or real capital employed to yield an interest of 6 per cent.; and how gradual should the reduction be?

## ANSWERS.

23. The present duty has proved sufficient, but the taking off of the duty on saltpetre would materially favor the exportation of gunpowder. I would recommend a bounty on the exportation of powder, about equal to the amount of duty on the saltpetre employed; extensive exportations might have been made had this bounty existed: this I know from my own experience. For the home market the present duty is sufficient, owing to the superiority of our powder.

24. I know of no reason why the present mode of collection should be changed.

25. Look to answers 3, 6, and 7.

26. The proportion of labor to the material employed is about one-eighth part of the whole cost.

27. The amount of agricultural and other domestic productions averages, I presume, from 20 to 25 per cent.

28. I should suppose from seven to eight hundred thousand pounds annually in this State.

29. The profits upon this manufacture, considering the risk of life and property, are so moderate that a further depression would be entirely discouraging.

30. In such an emergency, circumstances alone would direct the employment of the capital.

These queries do not come within my sphere of knowledge.

| QUESTIONS.                                                                                                                       | ANSWERS.                                                  |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| 36. What would be the operation of this change upon the frauds at present supposed to be practised?                              | These queries do not come within the sphere of knowledge. |
| 38. Extent of individual and household manufacture in the United States, and how much it has increased since the tariff of 1824? |                                                           |
| 39. Average profit of money or capital in the United States?                                                                     |                                                           |
| 40. Average rate of wages?                                                                                                       |                                                           |

In conformity with the request of Andrew Gray, as contained in his circular, of Nov. Month 14, 1832, addressed to the different manufacturers in this State, the following statement of one year's business done in a tannery, in this place, by the subscriber, is now respectfully submitted.

**ISAAC JACKSON**

WILMINGTON, DEL., *Fourth Month* 30, 1832.

NOTE.—The hides in this tannery are principally slaughter or green, and produce this market at five cents a pound.

*Account of Stock purchased in the year ending Twelfth Month 31, 1831.*

|                                                          |   |   |   |   |   |               |
|----------------------------------------------------------|---|---|---|---|---|---------------|
| 600 sole leather hides,* cost                            | - | - | - | - | - | \$894         |
| 200 upper do.                                            | - | - | - | - | - | 20            |
| 600 calf skins                                           | - | - | - | - | - | 480           |
| Amount of hides and skins in the raw state               | - | - | - | - | - | 1374          |
| 90 cords Spanish oak bark, at \$11                       | - | - | - | - | - | 990           |
| 10 do black oak, at \$6                                  | - | - | - | - | - | 60            |
| Labor of two men and two boys, one year                  | - | - | - | - | - | 120           |
| Expense of keeping one horse for grinding bark           | - | - | - | - | - | 75            |
| Rent of tanyard                                          | - | - | - | - | - | 75            |
| Incidental expenses for portorage, freight, repairs, &c. | - | - | - | - | - | 75            |
|                                                          |   |   |   |   |   | <hr/> 1380    |
| One year's interest on \$5,000 capital                   | - | - | - | - | - | 250           |
|                                                          |   |   |   |   |   | <hr/> \$1,630 |

The proceeds of the above stock when manufactured, may be estimated, at the ~~present~~ market prices, as follows:

|                                                      |   |   |   |   |   |   |   |        |
|------------------------------------------------------|---|---|---|---|---|---|---|--------|
| 16,000 lbs. sole leather, at 25 cents                | - | - | - | - | - | - | - | 4.00   |
| 200 upper leather hides, at \$4 50                   | - | - | - | - | - | - | - | .90    |
| 600 calf skins, at \$20 per dozen                    | - | - | - | - | - | - | - | 1.00   |
| Sales of offal, viz. horns, tails, hair, glue pieces | - | - | - | - | - | - | - | 1.75   |
|                                                      |   |   |   |   |   |   |   | 6.65   |
| Amount of raw materials and expenses brought down    | . | . | . | . | . | . | . | 5.85   |
| Net proceeds                                         | - | - | - | - | - | - | - | \$ .80 |

\* Having kept no regular account of stock, the quantity of each article is partly ~~uncertain~~ but is, nevertheless, I apprehend, nearly correct.

The price of sole leather, as above stated for the past year, is higher by from 1½ to 2¢ per lb. than we have realized in several preceding years, which would reduce the net proceeds \$320, leaving only \$280 clear gain. No charge is made in the above account for superintendence of the business.

*General Remarks.*

The amount of tanning business done in this place has been much diminished within fifteen or twenty years past; at the same time that it has been increasing in the adjacent country. This change, it is believed, is principally owing to the high price of Spanish oak bark in the former, which has generally been at eleven dollars a cord, for that brought in wagons, (which is very limited in quantity,) and from thirteen to fifteen dollars for that shipped from the lower parts of this peninsula. At the distances of twenty and thirty miles from this place, in the country bordering on the Susquehanna river, good Spanish oak bark is procured at five, six, and seven dollars a cord; hence it will readily be seen that tanners located in that district, have an advantage of six or seven dollars a cord above those in this place, making in a stock of 200 cords, an annual saving of \$1,200 at least. It may be observed that they are subject to considerable expense in the transportation of hides to their establishments, and of the leather to market, which, for a stock of 1,000 heavy Spanish hides, may be estimated at \$200, which leaves a balance of \$1,000 annually in favor of the country establishments, besides the comparative cheapness of the current expenses of a family.

In ascribing the decline of the business in this place to the high price of bark, I may be thought in error, as it was equally high in former years, when more than double the amount of the present business was done; but at that time the prices of Spanish hides were lower, and the prices of leather 20 per cent. higher. In 1817-18, best Spanish hides were from 14 to 16 cents per lb., and sole leather from 30 to 32 cents. At this time hides are from 16 to 18 cents, Spanish sole leather from 22 to 25 cents.

I have no information of sole leather being imported from other countries into this in such quantity as to interfere with our manufacture. A few years since, a considerable number of light calf-skins, in a finished state, were imported from France, which, it was apprehended, might have a depressing effect on that article here; but of late I have heard nothing reported concerning them, that I conclude the trade was not found to answer.

Very respectfully,  
ISAAC JACKSON.

WILMINGTON, DEL, *Fourth Month* 30, 1832.

WILMINGTON, *Fourth Month* 30, 1832.

ESTEEMED FRIEND: According to the best information I can obtain at this time, there are eight tanneries in occupation in this county; the annual sales from which may probably average five thousand dollars each, making an aggregate of forty thousand dollars.

It appears that thirteen tanneries in this county have been vacated within the last fifteen years.

Respectfully, thy friend,  
ISAAC JACKSON.

JOSHUA GILPIN.

WILMINGTON, *Fourth Month* 30, 1832.

RESPECTED FRIEND: Pursuant to thy request, I called on James Carson and Isaac H. Starr, tanners, who informed me they had some time since furnished an account of their business to William A. Mendenhall. Having procured a copy of the queries addressed by Andrew Gray to the manufacturers of this State, and observing the instructions contained in a note appended thereto, have given a general or summary statement of my business, together with some general observations on the causes of the decline of the tanning business in this place, which may be applicable to others similarly situated.

Respectfully,  
ISAAC JACKSON.

JOSHUA GILPIN.

ANDOVER, *Third Month* 11, 1832.

RESPECTED FRIEND: Enclosed I send thee a statement made out by Alexander Peterson, one of the firm of John and Alexander Peterson. It embraces the manufactories of leather and quercitron bark in the county of Kent, Delaware, and I make no doubt, is mainly cor-

## DOCUMENT 16.—No. 2—Continued.

rect. Alexander, from the nature of his pursuits, is intimately acquainted with all the tanneries and bark grinding establishments in the county, and besides, I consider him a man of excellent judgment, and one that may be implicitly relied upon for whatever he may give. I shall be glad if what is now sent may be found such as thee wants.

There are no mills in the county that manufacture flour or meal for export; they are all mere country establishments, engaged in doing a domestic business for their respective neighborhoods. There exists near Milford a small iron concern, at which a few castings are produced for the surrounding country; but I understand none whatever are sent abroad, and that the whole business is a very minor matter indeed. I know the owner, and, from his circumstances, should hardly think that the establishment would be worth notice.

Two days since, I went to Delaware to get the needful information on the woollen business. I called upon Alexander Murphy, who is perhaps the most extensively concerned, but unluckily found him from home: he has returned by this time, and I intend seeing him to-morrow, when I hope to give thee the wanted information. He is well acquainted with all that is doing in the woollen trade, and I doubt, will at once give a pretty correct statement. As soon as I get it, there shall be no delay in sending it on. When thy first letter and circular reached me, I was confined pretty much to the house with the influenza, which I must offer as an excuse for not giving earlier attention to thy requests: however, as I am now nearly myself again, I trust a day or two hence will furnish all I can give; and I have only to say, that whenever any little services I can render may be useful to thee, thee can command them at pleasure.

I should not have forwarded the present statement till I had completed the whole, had it not been to convince thee that I have not been inattentive to thy wishes, but anxious to give the earliest and best information I could obtain.

With sentiments of much respect, thy friend,

JOHN TURNER

JOSHUA GILPIN, Esq.

PHILADELPHIA, *Fourth Month* 11, 1832.

RESPECTED FRIEND: Enclosed is a list of the mills of Kent county, Delaware, with their probable value; it was furnished by Thomas Mifflin, of Camden, and I presume is nearly accurate.

As the whole of the mills are engaged in country operations, I should think that an allowance of two hands to each would be about the fair thing.

The cost of the bark establishments, and number of hands engaged therein, I think thee will find in Alexander Peterson's letter, sent on a former occasion.

Very respectfully, thy friend,

JOHN TURNER

JOSHUA GILPIN, Esq.

*Statement of the Tanneries in operation in Kent County, State of Delaware, 1831.*

Benjamin Potter, Milford. Value of real estate, \$1,500; capital employed exclusive of real estate, (supposed,) \$6,000; amount of leather produced annually, (supposed,) \$5,000; number of hands employed, four.

John M. Darby, Milford. Value of real estate, \$1,500; capital employed exclusive of real estate, (supposed,) \$4,000; amount of leather produced annually, (supposed,) \$3,000; number of hands employed, three.

Thomas Clark, Frederica. Value of real estate, \$1,000; capital employed exclusive of real estate, (supposed,) \$6,000; amount of leather produced annually, (supposed,) \$5,000; number of hands employed, four.

James Green, Willow Grove. Value of real estate, \$500; capital employed exclusive of real estate, (supposed,) \$1,000; amount of leather produced annually, (supposed,) \$1,000; number of hands employed, two.

Green & Scott, Georgetown. Value of real estate, \$500; capital employed exclusive of real estate, (supposed,) \$1,000; amount of leather produced annually, (supposed,) \$1,000; number of hands employed, two.

John & Alexander Peterson, Smyrna. Value of real estate, \$5,000; capital employed exclusive of real estate, \$25,000; amount of leather produced annually, \$20,000; number of hands employed, nine.

## DOCUMENT 16.—No. 2—Continued.

*A Statement of the Manufactories of Quercitron Bark, by water power, in operation in Kent County, State of Delaware, 1831.*

Joseph G. Oliver, Milford. Quantity of black oak bark used, 400 cords; number of hands employed, seven; capital employed, \$3,000; value of mill and machinery, \$2,500.

Charles Kennedy, near Milford. Quantity of black oak bark used, 250 cords; number of hands employed, five; capital employed, \$20,000; value of mill and machinery, \$1,000.

Charles Stedham, near Frederica. Quantity of black oak bark used, 400 cords; number of hands employed, seven; capital employed, \$3,000; value of mill and machinery, \$2,500.

Joseph Smithers, near Frederica. Quantity of black oak bark used, 300 cords; number of hands employed, six; capital employed, \$2,500; value of mill and machinery, \$2,000.

Penewell & Sipple, Dover. Quantity of black oak bark used, 500 cords; number of hands employed, eight; capital employed, \$3,500; value of mill and machinery, \$3,000.

B. A. Crawford, Smyrna. Quantity of black oak bark used, 500 cords; number of hands employed, eight; capital employed, \$3,500; value of mill and machinery, \$3,500.

George Stedham, near Smyrna. Quantity of black oak bark used, 300 cords; number of hands employed, six; capital employed, \$2,500; value of mill and machinery, \$2,000.

Alexander V. Murphy, near Smyrna. Quantity of black oak bark used, 200 cords; number of hands employed, four; capital employed, \$1,500; value of mill and machinery, \$1,000.

SMYRNA, March 10, 1832.

\*RESPECTED FRIEND: I send you a statement, the best I can make from my general knowledge of the business done in the county, and the very limited time to prepare it. Had I more time to make the necessary inquiry, I could, perhaps, furnish one more satisfactory to myself; but this one is no great way from the truth.

Very respectfully, yours,  
ALEXANDER PETERSON.

MR. JOHN TURNER.

*Robert Houston, son of John's, Tannery, Sussex County, Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                                                        | ANSWERS.                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                         | 1. Sussex county, Delaware.                              |
| 2. Kind or description of the manufactory, and whether water, steam, or other power?                                                                                                                                                                                                              | 2. Leather tannery; horse power.                         |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                           | 3. In 1810; individual concern.                          |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                                                                                                                                                                                       | 4. Two thousand dollars.                                 |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                   | 5. Six thousand dollars.                                 |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which borrowed, after providing for the interest upon it; and the rate of profit upon that portion which is not borrowed? | 6. Annual profit \$1,000; no part borrowed.              |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                    | 8. From six to ten per cent.                             |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                             | 9. Twelve hundred sides of sole leather tanned annually. |

| QUESTIONS.                                                                                                                       | ANSWERS.                                                             |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?  | 10. Hides brought from Spanish Amer.                                 |
| 12. Number of men, women, and children employed, and average wages of each class?                                                | 12. Three men and one boy; \$15 for men and \$6 for boys, per month. |
| 13. How many hours a day employed, and what portion of the year?                                                                 | 13. Ten hours each day, all the year.                                |
| 14. Rate of wages of similar classes otherwise employed in the same State and county, in other States, and in foreign countries? | 14. Nine dollars per month.                                          |
| 15. Number of horses, or other animals employed?                                                                                 | 15. One horse.                                                       |
| 16. Whether the manufactures find a market at the manufactory? If not, how far are they sent to a market?                        | 16. Sent to Philadelphia, 120 miles.                                 |

*Peter F. Causey's Oil and Bark Mill, Sussex County, Delaware.*

| QUESTIONS.                                                                                                                                                                                                                                                                                           | ANSWERS.                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                                                                                                                                                                                            | 1. Sussex county, Delaware.                                                                                                                            |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                                                                                                                                                                                 | 2. Linseed oil mill, and quercitron bark factory; both by water power.                                                                                 |
| 3. When established, and whether a joint stock concern?                                                                                                                                                                                                                                              | 3. Established in 1828; individual stock.                                                                                                              |
| 4. Capital invested in ground and buildings, and water power and machinery?                                                                                                                                                                                                                          | 4. Five thousand dollars.                                                                                                                              |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                                                                                                                                                                                      | 5. Seven thousand dollars.                                                                                                                             |
| 6. Annual rate of profit on the capital invested since the establishment of the manufactory; distinguishing between the rate of profit upon that portion of the capital which is borrowed, after providing for the interest upon it, and the rate of profit upon that portion which is not borrowed? | 6. Suppose 10 per cent.; none borrowed.                                                                                                                |
| 7. Cause of the increase (or decrease, as the case may be,) of profit?                                                                                                                                                                                                                               | 7. The decrease of profit on quercitron bark, caused by the quantity manufactured, on account of duty not sufficient.                                  |
| 8. Rates of profit on capital otherwise employed in the same State and county?                                                                                                                                                                                                                       | 8. Thirty-three per cent.                                                                                                                              |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind?                                                                                                                                                                | 9. Two thousand gallons oil; two hundred tons quercitron bark, both of the first quality; oil, at an average of 85 cents; bark, \$15 per ton, average. |
| 10. Quantity and value of different kinds of raw materials used; distinguishing between foreign products and domestic products?                                                                                                                                                                      | 10. 500 cords black oak bark, at five dollars, \$2,500; 1,500 bushels flax-seed, \$1.25, \$2,250; domestic.                                            |
| 11. Cost in the United States of similar articles of manufacture imported from abroad, and from what countries?                                                                                                                                                                                      | 11. Bark, none; linseed oil, from Europe and Russia.                                                                                                   |

| QUESTIONS.                                                                                                                                                                                                                                                                                                                                 | ANSWERS.                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 12. Number of men, women, and children employed, and average wages of each class?                                                                                                                                                                                                                                                          | 12. In oil mill, two men; in bark mill, ten men; raising and delivering iron ore, sixty men and boys; average wages, \$14 per month. |
| 13. How many hours a day employed, and what portion of the year?                                                                                                                                                                                                                                                                           | 13. Employed ten hours in the day; ten months in the year.                                                                           |
| 14. Rate of wages of similar classes otherwise employed in the same State and county; in other States; and in foreign countries?                                                                                                                                                                                                           | 14. Can't say.                                                                                                                       |
| 15. Number of horses or other animals employed?                                                                                                                                                                                                                                                                                            | 15. Delivering the ore, 50 horses, 60 yoke oxen.                                                                                     |
| 16. Whether the manufactures find a market at the manufactory? If not, how far they are sent to a market?                                                                                                                                                                                                                                  | 16. Oil, to Philadelphia; bark, no sale; ore shipped to New Jersey.                                                                  |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?                                                                                                                                                                                                                 | 17. None except oil; to what extent can't say.                                                                                       |
| 18. Where are the manufactures consumed?                                                                                                                                                                                                                                                                                                   | 18. Mostly in the United States.                                                                                                     |
| 19. Whether any of the manufactures are exported to foreign countries? and if so, where?                                                                                                                                                                                                                                                   | 19. Bark to Russia and to Europe.                                                                                                    |
| 20. Whether the manufacture is sold by the manufacturer for cash? if on credit, at what credit? if bartered, for what?                                                                                                                                                                                                                     | 20. Sold for cash.                                                                                                                   |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate?                                                                                 | 21. Bark and oil decreased ten per cent. in the labor.                                                                               |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                                                                                                       | 22. Bark at \$35½ per ton, oil at \$1 per gallon.                                                                                    |
| 23. What rate of duty is necessary to enable the manufacturer to enter into competition in the home market with similar articles imported?                                                                                                                                                                                                 | 23. On oil 50 per cent.                                                                                                              |
| 24. Is any change necessary in levying or collecting the duty on such articles to prevent fraud?                                                                                                                                                                                                                                           | 24. Can't answer.                                                                                                                    |
| 25. What has been the rate of your profits, annually, for the last three years? and if it be a joint stock company, what dividends have been received, and what portion of the income of the company has been converted into fixed capital, or retained as a fund for contingent or other objects, and therefore not divided out annually? | 25. Twenty-five per cent.                                                                                                            |
| 27. What amount of the agricultural productions of the country is consumed in your establishment, and what amount of other domestic productions?                                                                                                                                                                                           | 27. Agricultural productions, suppose consume \$5,000; domestic \$3,000.                                                             |
| 28. What quantity or amount of manufactures, such as you make, are produced in the United States, and what amount in your own State?                                                                                                                                                                                                       | 28. Can't say.                                                                                                                       |



## DOCUMENT 16.—No. 2—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                              | ANSWERS.                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| 29. If the duty upon the foreign manufacture of the kind of goods which you make were reduced to 12½ per cent., with a corresponding reduction on all the imports, would it cause you to abandon your business, or would you continue to manufacture at reduced prices? | 29. Would abandon the crushing of seed to oil. |
| 30. If it would cause you to abandon your business, in what way would you employ your capital?                                                                                                                                                                          | 30. Agriculture.                               |
| 31. Is there any pursuit in which you could engage, from which you could derive greater profits even after a reduction of the import duties to 12½ per cent.?                                                                                                           | 31. Suppose there was.                         |
| 33. Amount of capital; and what proportion the borrowed capital bears to that which is real?                                                                                                                                                                            | 33. None borrowed.                             |
| 40. Average rate of wages?                                                                                                                                                                                                                                              | 40. Twelve dollars per month.                  |

*William Tunnell's Tunnery, Sussex County, Delaware.*

| QUESTIONS.                                                                                                                            | ANSWERS.                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 1. State and county in which the manufactory is situated?                                                                             | 1. State of Delaware, Sussex county.                                   |
| 2. Kind or description of the manufactory; and whether water, steam, or other power?                                                  | 2. Tanyard and horse power.                                            |
| 3. When established; and whether a joint stock concern?                                                                               | 3. Established in 1824; individual.                                    |
| 4. Capital invested in ground and buildings, and water power, and in machinery?                                                       | 4. One thousand dollars.                                               |
| 5. Average amount in materials, and in cash for the purchase of materials and payment of wages?                                       | 5. About one thousand dollars, for bark.                               |
| 9. Amount of articles annually manufactured since the establishment of the manufactory? Description, quality, and value of each kind? | 9. Eight hundred Spanish hides; sole leather, principally.             |
| 12. Number of men, women, and children employed; and average wages of each class?                                                     | 12. Two men and one boy; wages for the men, per month, \$26; boy, \$6. |
| 13. How many hours a day employed, and what portion of the year?                                                                      | 13. From sun to sun, and the year round.                               |
| 15. Number of horses or other animals employed?                                                                                       | 15. Two horses.                                                        |
| 16. Whether the manufactures find a market at the manufactory? if not, how far are they sent to a market?                             | 16. Sent to Philadelphia, 120 miles.                                   |
| 17. Whether foreign articles of the like kinds enter into competition with them at such place of sale, and to what extent?            | 17. Can't say.                                                         |
| 18. Where are the manufactures consumed?                                                                                              | 18. All over the United States.                                        |

## DOCUMENT 16.—No. 2—Continued.

| QUESTIONS.                                                                                                                                                                                                                                                 | ANSWERS.                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| 19. Whether any of the manufactures are exported to foreign countries? and, if so, where?                                                                                                                                                                  | 19. Can't say.                                                            |
| 20. Whether the manufacture is sold by the manufacturer for cash? and if on credit, at what credit? if bartered, for what?                                                                                                                                 | 20. Sold on a credit of four months; barter only for hides at cash price. |
| 21. Whether the cost of the manufactured article (to the manufacturer) has increased or decreased; and how much in each year from the establishment of the manufactory; and whether the increase has been in the materials or the labor, and at what rate? | 21. All increased.                                                        |
| 22. The prices at which the manufactures have been sold by the manufacturer since the establishment?                                                                                                                                                       | 22. Sole leather from 22 to 28 cents per pound.                           |

April 27, 1832.

MY DEAR SIR: I received yours of the 3d, respecting the salt and iron manufactures of Sussex, and should have sooner answered it, but have been waiting to see Col. Waples; though I have not yet met with him. I have seen Wm. Dodd, one of the oldest salt-makers in Rehoboth; he tells me he has made eight or ten hundred bushels himself some years past, but last year there was not more than one thousand bushels made altogether, and none by evaporation, it has all been boiled; and to the south of Indian river he supposes there is about the same number of bushels boiled at present, though a much larger quantity was formerly made at both the situations.

As it respects the leather manufacture, we have two that send leather and get hides via Lewes. One or two considerable tanyards are at Dagborough and Millsborough; also at Georgetown, Laurel, Milton, Northwest Fork, and Milford. The grinding of bark for exportation has been, some years past, carried on to a considerable extent; in consequence of the low price at present, it is almost abandoned. There is, however, one branch of business in Sussex that is, I think, increasing, viz. the building of coasters and shallops for the shingle and stone trade. You will see from my statement, that, except iron, we have nothing to be called manufactures in Sussex, that we had not fifty years ago.

With my best respects to your wife and daughters,

I am your assured friend,

DANIEL RODNEY.

JOSHUA GILPIN, Esq.

## DOCUMENT 16.—No. 3.

*Notes on the history and principles of a Tariff, and of public labor.*

In entering upon the investigation of a tariff, the first object seems to be a clear definition of its meaning.

In a restricted sense, a tariff is no more than a list of duties, but in a more extended one it is defined to be a cartel of commercial regulations, synonymous to a code of laws confined to mercantile purposes.

In either sense it is coeval with commerce itself, and to be traced in its earliest history: indeed, it is obvious that commerce must have required regulations from the outset, and duties have been levied upon it to defray their expenses: further duties, or a part of its profit, would be taken by the State for its general protection, and when commerce became the principal

object, and its profits great, they would be made the resource of the State, and form the most certain and fairest portion of its revenue.

It is obvious that all the duties and regulations of commerce must have had a beneficial or injurious effect upon it, and it is not to be supposed they would be made otherwise than beneficial; hence all laws which respected it would be formed to give it protection, and to extend to all the objects connected with it; most particularly to those that supported it, which were immediately into view the system of protection, and the inquiry as to the objects to which it extended.

Commerce, agriculture, and manufactures, are convenient terms of classification in considering the general labor of a country, and they conveniently represent the forms which labor assumes; but they are not arbitrary, and, like the classification of natural history, such as intermingled as not to be separated. In the human body, though divided into distinct members we cannot admit a system of legs or arms without a reference to the whole; and different applications of labor have throughout a common form in which they must all be viewed, as the joint general labor of the State.

Commerce, in a restricted sense, is no other than the transport or carriage of productions in a more extended one, it comprises the buying, selling, and exchange of them; but even the existence of the productions themselves is essential, for, without them, there can be no commerce: hence all regulations made for the protection of commerce must extend to that which supports it. Now, the productions by which commerce is supplied being those of the different departments of labor, viz. agriculture and manufactures, this brings immediately into view a system of protection to them, and shows that it must have originated with that of commerce.

It is probable that little or no commerce existed before the rude productions of the soil were brought into some more useful form. There are, indeed, some native productions which in their rude state are attractive objects of barter; accordingly, we find gold and silver, diamonds, pearls, spices, perfumes, and native salt, among the articles of the earliest commerce, though slaves, ivory, the fine linen of Egypt, and many others, denote that, even at the earliest period, manufactures existed which furnished articles of superior convenience, and required material for their use. Indeed, it is almost impossible to trace the earliest state of manufactures for the first cutting down a tree implies an existence of them.

The first commercial voyages of which we read were extremely similar to those which the Europeans to have made on our own coasts, and such as are now made to the western coast of America, that is, for the exchange of manufactured articles for native productions against their arts at home. Such were the voyages of the Egyptians and Phœnicians to Greece. A Phœnician trader once resorted to the coast of Argos, and displaying his wares on the shore, he brought the natives to traffic, when, seizing the Princess Io and her attendants, he sold them as slaves in Egypt. Such is the picture of the earliest voyages which the manufacturing nations carried on with Greece, till Greece itself became commercial, and made the settlement of Italy, Gaul, and Spain; where Marseilles, Cadiz, and Lisbon, were established as trading-houses or colonies to barter manufactures for the furs, drugs, and gold, and other articles of the nations.

As this commerce depended on the manufactures at home, and the nations which pursued the best arts for making them gained the most commerce, so their improvement became the object of the utmost attention, and of all the laws necessary to guard or to perfect them.

In some States, as in those of the rocky coasts of Phœnicia, manufactures formed the principal source of commerce; in others, as in Egypt, they combined with and gave value to agricultural productions: the manufactures of Egypt are spoken of from the remotest antiquity in the book of Ezra above seventy articles of manufactures are enumerated as forming the commerce of Tyre and Sidon.

The economical regulations of these States, and of their productions, are to be traced in the earliest records of their commerce itself; and it may be asserted, not only that every great manufacture which has existed in any country has depended upon wise regulations to produce or mature it, but that no great national art has been formed without them: hence laws of protection and improvement are to be found in the codes of Egypt; and the arts of Sidon and Tyre were guarded with the utmost precaution. There seems, indeed, to have been the same rivalry between them and Greece, of the one to retain, and the other to carry away the secret, dye, that now exists for the arts between Europe and ourselves. In the same manner the trees which constituted the wealth of Attica, the commerce of Carthage, the manufactures of Etruria, and the wines of Italy, were all guarded by similar laws; and the Romans, in tending their colonies, dictated with no small precision what each should pursue. In fact, wherever we read of the commerce of the ancients, we find it to be founded on their arts, and these arts protected by all the regulations which are embraced in a tariff.

In the middle ages, Justinian introduced the culture of silk in 555, to Constantinople; and it was retained in the Greek provinces by strict regulations for near six hundred years, until the conquest of Roger, king of Sicily, transplanted both the art and workmen to Italy and France, where it became, and has since constituted, the second great staple of European manufacture. In the same ages, the rich commerce of Venice, Florence, Pisa, Genoa, and the Netherlands—in short, the entire revival of modern industry in Europe, arose from the establishment of manufactures, and the commerce founded upon them, equally guarded by wise regulations.

There is no one occurrence in history that more fully illustrates the manner in which, by the force of encouragement and protection, the whole mass of agricultural, manufacturing, and commercial labor, may be formed into a system of national greatness, than the rise of the wool and wool trade of England. From the remotest period of its history, England abounded in tin, lead, hides, and wool, which were carried away by other nations.

In the middle ages its wool was the great article in which the taxes were paid to its kings, and sold by them to foreigners, who carried it away in their own ships to supply the manufactures of Lombardy, Spain, and Flanders, which were in turn brought back to supply the people of England. There was then, indeed, no commerce or wealth in the kingdom, beyond a bare sale of this valuable article, until Edward III., by the decisive encouragement of foreign artists, and by wholesome regulations, established that manufacture, upon which its commerce began to rise, and the manufacture itself to become the greatest in Europe. Since then the same regulations applied to other native productions, and, above all, within the last fifty years to its iron and coal, have formed them into an immense resource, and eminently increased at once its manufactures and commerce.

A system of regulation for its labor, both internal and external, was begun in France after the reign of Henry IV., (in 1600,) when it had but few manufactures, and no commerce. The fastidious minuteness of this system has been censured, and many of its details now appear absurd, yet from them has resulted the improvement of the silk manufacture, the rise of those of china, tapestry, cloth, iron, soap and wine, by which the native productions of the soil were brought into activity, and created the rich commerce which France possessed before the revolution.

In the same manner we may trace the commerce of Holland, founded at first on its fisheries, and afterwards on the manufactures of itself and its neighbors, until it became one of the greatest commercial States of Europe; and we may take the round of these States as a proof how each, by applying itself to its own features, and cultivating the labor of its own productions by just regulations, has entered the great mart of commerce, and partaken of its benefits.

On the discovery of America, the Europeans who effected it established in their settlements the common feature of making them subservient to the interests at home, and formed all the laws they thought proper for the purpose. The English colonies, before the revolution, were supplied with tariff regulations of every description by England herself, whose laws protected their ships and citizens, and regulated their intercourse with other nations. The system of their labor was restricted to furnish raw materials for the manufactures of England, with which their wants were to be supplied; but they were prohibited from forming those manufactures themselves. The principles, indeed, then taught, were that it was not proper to indulge the colonies in regulating their own labor, but that they should apply themselves to clear their forests, and to pursue their agriculture, leaving manufactures to England itself. It was in vain that the soil of America was found to teem with rich mineral productions, and her woods with objects of manufacture: these, so far as they could furnish raw materials to England, were encouraged, but beyond that the colonists were forbidden to go.

The English system was, however, so loosely understood, and so weakly pursued, that though it produced many severe and absurd restrictions, yet, from the struggles of the colonists, or their adroitness, and the general disposition of England to turn them to account, they were left very much to their own operations, befriended in many instances by useful laws, and protected by those of the British empire: hence there grew up among themselves a very beneficial course of labor, and rapid prosperity.

The history of the British colonies deserves to be studied for many important considerations, but practically for two:—first, as it furnishes the best instance in existence of the manner in which the labor of a people, certainly in the main very free, but as certainly aided by many wholesome laws, became applied to the circumstances around them, and brought into effect the operations of agricultural, manufacturing, and commercial labor, so as to form one great aggregate of the whole, founded on the natural productions and wants of the country; and, secondly, as the best practical instance of public or political economy, to prove how much more the principles of this economy are to be attained by the just study of public labor in each

was reversed, as it required great manufacturing labor and skill to produce it. It is to be noted that cotton is mentioned as an article of export from Carolina so early as 1750, yet this must be considered as a production not realized to any extent before the revolution.

To Carolina was added Georgia—not, however until the middle of the last century; but when added, it was essentially by the same features of labor producing the same objects of commerce.

These constitute the essential application of labor upon which the colonies were founded: in describing them I have purposely omitted many details, in order to judge of them the better in their simple form. In the progress of settlement, however, they became ramified into various shapes by the increase of population, the introduction of new arts, and the discovery of natural productions, upon which these could be exercised: another great feature, therefore, was soon superadded to constitute a sixth important application of labor, that is, manufactures.

Hitherto we have seen manufacturing labor primarily and essentially necessary to give value to the most simple agricultural productions, and to fit them for commerce; in which it will also be seen that, without manufacturing skill, there was scarcely a single production of the waters, the forest, or the soil, which could be exported. But to these, which we may term agricultural manufactures, a second class was immediately added, composed of those essential to build houses and ships, to form the implements of agriculture, and at least common clothing; the uses of which are obvious, and they immediately threw open the door to a further important extension. The shoemaker would encourage the tanner to manufacture the hides of the country; the smith who mended a horse shoe, would be tempted to make them, and to take for the purpose the iron which was discovered on the spot; the conversion of wood into boards naturally led to that of furniture; the furs of the country to the manufacture of hats; and the frugal farmer and housewife would employ the long evenings of winter in converting their wool and flax into cloth. These together bring into view the great class of staple and domestic manufactures which, from the outset, employed a considerable portion of the labor of the colonists, especially of those to whom remoteness of situation, or the want of objects for commerce, rendered them essential. Such was much the case with the thrifty settlers of New England, who became early attentive to their manufactures, not only to clothe themselves, but to produce many articles of traffic with the other colonies, and Massachusetts applied itself very early to those of iron, and others of considerable importance.

It was, however, in Pennsylvania that the greater objects of manufactures were first realized. This colony began, as I have observed, at a later period than most of the rest; was formed by three classes of people, whose varied characters admirably suited the distinct portions of labor. The first of these were the English settlers, and a large proportion of them quakers; the second Dutch or Germans; and the third Irish. The last brought with them few of the arts, but were admirably fitted for the labor of the forest and the field; the English introduced many manufactures, and the Germans still more, for, without entering deeply into the inquiry, it is a fact that the manufactures of England were then less improved than those of the continent.

To her English and German settlers, therefore, Pennsylvania was principally indebted for the introduction of her arts which became conspicuous in the beginning of the last century, and to them are to be traced not only a great improvement of domestic manufactures, but many of a superior class, among which we may reckon paper making, type-founding, and printing, tanning and dressing leather and skins, stockings of excellent fabric, many of the coarse kinds of cutlery and iron ware, glass, carriages, and a variety of others, which became fixed in Pennsylvania, and made it in no small degree an emporium to which the other colonies resorted for many articles of importance.

Upon this basis of productions, the joint effect of agriculture and manufactures, but particularly of the agricultural manufactures, was founded the commerce of the colonies, which soon became extensive, and directed to the following objects:

First, to England itself, from whence the colonies derived their supplies, and through which their productions were transmitted to other countries, at least for many years.

Second, to the West Indies, which proved by far a more beneficial trade than that to England itself, and was actually the first nurse both of the West India and continental colonies.

Third, a contraband trade, which grew out of the last, with the French and Spanish West Indies, in which England herself largely partook. This trade was perhaps in the main the most beneficial one of all, as it largely encouraged the productions of the colonies at home, and supplied them with gold and silver in return.

Fourth, to a trade which was permitted by England with Spain and Portugal, the returns of which were allowed to be made in wines, though for a far greater part they were remitted to England, or brought back in gold and silver.

On the contrary, as early as 1699 a woollen manufacture, probably no more than a domestic one, was denounced, but the growth of raw wool encouraged; in 1731 the making of hats was forbidden; and in an act of 1750 for encouraging pig iron, tilt hammers, slitting, cutting, or plating mills, and the manufacture of steel, are prohibited.

In the returns of 1730 and 1732 the great prosperity of the colonies is set forth. The tobacco of Virginia and Maryland employed 2,400 tons of shipping. Pennsylvania exceeded in white population all the southern colonies together, built 2,000 tons of ships annually, and had a large list of exports in agricultural produce and articles manufactured from it; and the New England colonies, especially Massachusetts, employed 40,000 tons of shipping and 600 vessels in their coasting trade and fisheries. Many curious particulars, however, are now given of the state of labor.

In Massachusetts Bay there had been an act for the encouragement of paper, and a paper-mill erected, which was reported to interfere with the encouragement of the British merchant who imported foreign paper; that great quantities of hats were made, and some of them exported, that all sorts of iron work for shipping was made, and there were six iron furnaces and nineteen forges in New England; that ships were built and sold to the French; that wool and flax cloths were made for their own use in New England, Pennsylvania, and Somerset county, in Maryland. There seems, however, to have been no particular return from Pennsylvania, but it is remarked that there are more trades and manufactures prejudicial to those of England set up in the colonies north of Virginia, for which reason it is proposed to Parliament to increase the encouragement of the colonists to turn their industry to such manufactures of raw material and naval stores as might be of service to England.

The commerce of the colonies may now be considered as of two kinds; first, that of the fair export of their own productions to a large extent in their own ships to the West Indies, Madeira, Spain, Portugal, and the Mediterranean, from which they derived considerable profits and large returns in gold and silver, or bills of exchange: and, secondly, the trade with England, the returns of which comprised what may be termed the *furnishing trade*—that is, the supply of the colonies with all sorts of manufactures, which trade it was that England was so solicitous to monopolize, and made it so much the object of her restrictions. In the middle and northern States this trade was extensively supplanted by their free population, devoted to turn their productions to their own account, and improving them by their agricultural, staple, and domestic manufactures. But to the southward of Pennsylvania, England succeeded fully in her object, and supplied her manufactures, extending to the minutest articles of domestic use; in fact, except in some articles which England could not supply, the intercourse of the southern colonies was more direct with her than with the northern colonies themselves.

The trade with England, and particularly the *furnishing trade*, was chiefly conducted on British capital, that is, the manufactures were shipped by her merchants on credit, and she received the produce of the colonies sent to England; but the furnishing trade required for its return not only all this, but the bills, and gold, and silver, received by the colonies from all their other trade, in fact, the whole value of the exports of the colonies, beyond which there was still a balance due the British merchants; and as it is probable that all the profits acquired by the colonists were vested in improvements, the capital or balance of it constituted actually a standing mortgage to the British merchants, apparently paid every year by the activity of trade, but actually remaining and increasing, probably to the amount of £2,000,000 sterling in 1773, as that appears to have been the value of a year's export from England at the time. It should seem, however, that the excess of exports of Pennsylvania, New York, and New England, then amounted to about £1,000,000, and the excess of imports in Virginia, Maryland, the Carolinas, and Georgia, to £600,000 sterling, as appears by the following table:

|                       | Exports. | Imports. | Excess of Ex-ports. | Of Imports. |
|-----------------------|----------|----------|---------------------|-------------|
| Georgia               | 63,000   | 85,000   |                     | 22,000      |
| Carolinas             | 345,000  | 450,000  |                     | 112,000     |
| Virginia and Maryland | 329,000  | 590,000  |                     | 261,000     |
| Pennsylvania          | 426,000  | 37,000   | 380,000             |             |
| New York              | 290,000  | 76,000   | 213,000             |             |
| New England           | 527,000  | 125,000  | 402,000             |             |
|                       |          |          | 1,005,000           | 595,000     |

It would now be an useless inquiry how far the situation of the colonies would have been better or worse under an entire free trade, but it would not be a dubious one, as there cannot be a question that the protection and support of a powerful empire against enemies who could always have subdued or disturbed them, and who often threatened them, with the benefit of its arts and laws of that empire, constituted exactly that nurse of their strength which was essential to their growth, and effectually accomplished it; they were indeed the children of a paternal parent who supported them, but required and stimulated their aid until the period when separation became advantageous to both.

It would be a very valuable document if we could possess it, which should contain the statistical value of the colonies at the time of the revolution; but, though nothing of the kind exists, there are some data upon which a probable estimate of it may be formed, sufficient, at least, if its principles be adhered to, to continue a relative calculation afterwards. In one published by Mr. Dodsley in 1757, the white population of the colonies is estimated at nearly a million; but either by the authority or for the uses of the first Congress in 1774, its white population was estimated at 3,000,000. At that time the value of the estates of people of the best property, (excepting the great proprietors,) was about \$50,000, and as there was a great equality of condition, perhaps few were worth less than \$100; of these, if we take the white population at 2,000,000, the families at 400,000, and the average valuation of the estates at \$100, would give \$200,000,000 for the aggregate value of the colonies, including real and personal estate. Be this calculation, however, as it may, we cannot but consider the many improvements brought into cultivation, cities and houses erected, and ships and personal property coming, as the proof of a vast aggregate of wealth, formed in the course of little more than a century, by the united efforts of agriculture, manufacturing, and commercial labor, inseparably united: one common whole, exercised with great freedom, but certainly under many regulations.

However advantageous England was to the colonies, their value to her was inestimable, and certainly the basis of her commercial greatness. "Before England had colonies," says a distinguished British writer of the last century, "our general commerce was undoubtedly very inconsiderable." Again—"the American plantations are estimated for the vast number of their people, and the accommodations raised by them for our use, manufactures and exportation, and more especially for the perpetually increasing demand for all kinds of our manufactures, the people and ships, the supply and the bullion they bring in, and it is said the commerce we carry on with our colonies, is so vast as probably to exceed in profit that with all the rest of the world." Sir Josiah Child, in his treatise on the trade of England, observes "that every white man in the colonies gives employ to four at home." In fact, the colonies afforded to England that sure and certain market for her manufactures which enabled her to try every experiment to improve them until they became fitted for the rest of the world. If, therefore, we examine the rise of Manchester, Birmingham, Sheffield, and her other manufacturing towns, we shall find that the first great commencement of their prosperity took place with the opening of the colonies at the beginning of the last century, and that the great part of Liverpool was actually been created by their trade.

It is well known that the first rupture between England and her colonies began with the attempts of her minister, Mr. Grenville, too rigidly to enforce the existing regulations, (which had always been most wisely attempted to their situation,) and new regulations to tax them, the attempts at which had at all times been resisted as an invasion of their rights; but perhaps the best reason may be given for it in the confidence of the colonies to regulate their own labor and govern themselves. One of the first measures of Congress of 1774 was a very bold one, that to get rid of the furnishing trade, or in fact the whole trade of England, by the non-importation, non-consumption, and non-exportation agreement. This was founded on the value of the trade to England, and the resources she derived from it; and it certainly was a measure of severe distress to her, as it deprived her of the debt due from the colonies, which cannot be estimated at less than £1,500,000, of all the revenue derived from the trade, and of the best market for her manufactures before she had acquired others to supply its place, the annual loss of which can perhaps be estimated at less than another £1,500,000 in itself.

But the measure was not without severe distress to the colonies, who were now driven to their own resources for a period of nine years, in which they had to encounter not only the privations of their accustomed labor, but the calamities of war. Their first loss was in one of their commerce and the fisheries, with the lumber trade of the north; then followed the flour and other provisions of the middle States, and of the rice, tobacco, and naval stores of the south; except the supply of the people, and the provisions of the army, a great part of the crops of 1775, 1776, and 1777, perished, and cultivation was extremely reduced.

The stock of foreign manufactures in the country at first was probably equal to one year's

supply, or might be spun out to two; but there was immediately an extraordinary demand for the army, and the supply of many articles of the first necessity was altogether deficient, particularly of military stores, salt and sugars. Of these two last articles the want was for a long time irremediable, the prices became exorbitant, and the consumption diminished, but the want of salt was severely distressing. Of clothing, the stock at first was largely applied to the army and the troops of 1775, particularly, the volunteers of the cities were well supplied, but the supply soon became so exhausted that the sufferings of 1776 were extreme.

In this situation, two circumstances saved the country, viz. its severe economy and its manufacturing labor; both of these were most interestingly impressed by Congress and all public bodies, and eminently supported by the people. Withdrawn from those allurements which the constant change of fashion in foreign manufacture presents to increase their expenses beyond calculation, the time now arrived in which the pride of dresses, furniture, and equipage, became abated, and the best citizens of the country were not ashamed to be seen in clothes of extended use, a patched garment, an overcoat of blanket or of their household manufacture, and it is almost needless to say that the poorer class of people, and the negroes of the south, were supplied in this way by their own hands.

It was now, however, that the value of the existing manufactures, with their improvements, and the introduction of new ones, was felt and encouraged by every public and private exertion. The wants of the army led immediately to those of powder, cannon, and military stores: these therefore became immediately active, and particularly iron in all its shapes, as, also, leather and hats. Of cotton, little was yet grown in the colonies, but it began to be cultivated for domestic uses. The quantity of wool was small, but it was increased by attention; and the growth of hemp and flax, with the manufactures of them, largely encouraged. To these primary articles were added paper, glass, and many others; in short, most of the uses and comforts of life began to receive a decent and beneficial supply before any could be obtained from abroad.

As the war advanced, and particularly after the French alliance of 1778, some markets were opened in France and the West Indies for exports, particularly flour and tobacco, and some supplies were derived by fast sailing vessels and privateers. The trade was attended, however, with so much risk and expense, that the prices were very high; but those obtained for our own produce became most useful in raising the prices at home, and reviving cultivation; and those of foreign supplies stimulated the manufacturer. One beneficial effect of the foreign trade, particularly that of the West Indies, was to supply the country with specie, and to this was added the expenditure of the British army, which insensibly circulated through the country. At the close of the war, therefore, English guineas, French crowns, and Spanish dollars, were in considerable abundance, the fair result of its industry; so that, altogether, the last years of the war furnished an admirable practical lesson of the manner in which a free people may overcome all their disadvantages by a frugal and industrious application of their own labor to their own resources, and creating that best of all enjoyments—their self-dependence.

This self-dependence was indeed one of the most inestimable fruits of the revolution, as it gave the real independence of labor and resource to that of political right, which would have been nugatory without it, and this it effected by confirming the old manufacturing and agricultural labor of the country with the new objects that necessity added to them, to supply the loss of commercial labor for the present, and to lay the best foundation for its pursuit when it revived.

During this period there existed few features of a tariff: Congress indeed established a flag, and gave a national character to our ships where they were admitted, but it had no power to lay duties or regulate commerce; that rested with the several States, and what was done was by them; but little was necessary; it was altogether a period of storm and convulsion, in which war and exigence supplied the place of regulation. The labor of the country was sufficiently protected by the early regulations which had been made, and the high price at which every supply was attained, and duties were not wanted to enhance what necessity so much required.

Some attention to the capital of the country during this period is necessary in considering its labor. That which was due to England existed chiefly in debts of the country to those who owed it abroad, and with those of the people among themselves were either not paid at all, or paid in depreciated paper money, the greater part of it remained in a state of abeyance; the gold and silver of the country was carefully hoarded, or brought out only for the most pressing uses; and the pay of the army and public supplies were made in the depreciated paper until that would no longer serve the purpose, when the private credit of Mr. Morris and some foreign loans supplied its place. Extreme demand and brisk sale seem to have supplied the place of capital until the revival of commerce brought home supplies of gold and silver. During the latter three years of the war the combination of these with foreign loans, and the expendi-



ture of the French and British armies, gave that decent specie capital which I have already mentioned, and to this may be added the operations of the Bank of North America.

Upon the peace of 1783 the United States had to realize the benefits of independence amidst a host of difficulties. Demands for the old British debts immediately revived, and, with those of the country itself, produced a complication of distress, arising from losses during the war, paper payments, and bad laws; and the mass of public debt, at home and abroad, was without resources or a government to form them. Thus much as to the debts of the country: but the old Congress, formed alone for the exigencies of the war, was without energy or sufficient national powers of any kind, and was viewed with jealousy by many of the States, and efficiently supported by none.

In this state the labor of the country was utterly depressed both at home and abroad. Abroad, our ships and seamen had no efficient protection, and were captured by the Barbary powers: they were indeed received by the nations with whom we had treaties, all of whom rapaciously sought our trade for one object, that is, a customer for their manufactures or productions, but gave no encouragement to our own, and shut their colonies against us. Nothing, indeed, was more discouraging than our foreign trade, while a deluge of foreign manufactures poured in from every quarter, but especially from England. The privations of the war, and the fascination of foreign fashions, gave the first import of these in 1783 and 1784 a brisk sale, and payment at the expense of that gold and silver which even the distresses of the war had permitted us to accumulate. But this brought on a fresh inundation from every quarter, for which the country was utterly unable to pay: so that, of the importations of 1785 and 1786 a large part was sunk by foreigners from the extreme depression of prices, and the rest entailed a new debt on the country in addition to the old.

Of our own labor, the whale fishery was taken abroad and realized by France, and the cod fishery scarcely re-appeared for want of demand. The produce of the middle States, their flour and other provisions, and the tobacco, naval stores, rice and indigo of the south, were scarcely ever at so low prices and with so little demand as in 1786. As an important instance, flour was at \$4 per barrel, and this may serve for the rest. The only favorable features of our labor were some clandestine trade with the islands, which grew out of the war, and gave some support to the eastern distilleries, a feeble beginning of the Canton trade, the introduction of the culture of cotton in Carolina, the settlement of the Genesee country, the increase of potash and some other articles of agricultural manufacture, and the maintenance, even under the most depressing circumstances, of the domestic and essential manufactures of Pennsylvania; arising chiefly from two causes—first, the actual inability of the country to buy foreign articles under the depression of its produce, and, secondly, a great increase of the coasting trade and barter of productions, in which the middle States supplied the two extremities with flour, and Pennsylvania with iron and other manufactures, in which she actually became to a considerable extent the same resource for the furnishing trade to the southern States that England had been before.

This period of depression was again one in which no effective tariff existed, for the duties were no more than a scanty resource for momentary purposes, and all the regulations of commerce or of labor together were of little value. It was indeed a period of chance and confusion rather than of any just laws or sound principles, in which the country was hastening to anarchy, until the state of its debts, the feebleness of its government, and the distracted situation of its labor, produced rebellion in some States, and disquiet in all, and at length forced the universal conviction that without a powerful general government the fruits of the revolution would be lost, and the States become the rivals and enemies of each other.

The period in question lasted seven years, that is, from 1783 to 1790, during which the Federal Government was formed and began to impart its happiness to the country, which may be traced step by step almost with magic influence. The establishment of just laws and a powerful judiciary redeemed the debt of the country from the imbecility of State laws, and gave immediate value to property, and funding the national debt confirmed the character of justice to the Government, gave strength to the country at home and abroad, and created what was wanting to all its operations—a powerful capital; but to make this faith and capital efficient, funds were wanting to pay the debt, or interest of it, which could not be furnished by taxation, and had no resource but by reviving the labor of the country and creating a revenue from it, which was accordingly begun by all that protection and regulation which constitutes the features of a tariff. The registering our ships, their papers and protections of their crews, the tonnage duties, and discrimination on them between our own and foreign ships were all regulated in favor of commercial labor; but, to support that labor, the protection of those objects on which it depended was equally necessary, and was effected by imposing duties on imports, and accommodating them to the purpose.

It was in the three sessions of the first Congress of 1789, 1790, and 1791, that all the great measures for organizing the Government were brought forward in succession, and placed, like the well adjusted parts of a building, to form a magnificent whole. In this the establishment and regulations of Congress itself constituted one feature; that of the Judiciary, the Departments of State, Treasury and War, another; naturalization and the census a third; the national debt a fourth; the Bank of the United States, a Mint, and Patent Office, a fifth—all applicable to the Government generally; but the regulations of commerce, with the duties and custom-house, constituted the general tariff.

The duties of the tariff, strictly speaking, were formed by the first efficient act of Congress, dated July 4, 1789, in which the principles for establishing them were thus declared by the preamble: "Whereas it is necessary for the support of Government, for the discharge of the debts of the United States, and the encouragement and protection of manufactures, that duties be laid on goods, wares and merchandize imported;"—and the same is repeated in the act of August 10, 1790, for increasing them. These acts constitute the basis of the tariff duties of the United States, and the principles ever after pursued. Accordingly, they were adjusted from the outset at once to form the revenue and protect the labor of the country in which they were, of course, in some degree experimental as to their items at first, and, with the tonnage and other acts of the same nature, received various modifications to complete their details and to increase the revenue as they did by the act of March 2, 1791.

As if, however, the constitution of the United States was destined not only to realize the blessings of political liberty, but to be the harbinger of an unbounded prosperity, it began and proceeded so much hand in hand with the revolution of France, and those troubles which finally convulsed all Europe, as to derive from them advantages which they would probably never otherwise have obtained. At the end of the year 1788, the produce of the United States seems to have been at its utmost ebb, and flour, which may be taken as one of the best types of it, was as low as four dollars per barrel, yet, from a demand for France, occasioned by the disorganization of its labor, the price of this article rose in 1787 to upwards of five dollars, and the French islands cut off from supplies from home, opened their ports, and gave a market for the provisions of the United States, and soon after for two other important branches of their trade—first, a considerable supply of furnishing manufactures, and, secondly, the return or produce, particularly sugars and coffee, which, first carried to the United States beyond their consumption, were exported to Europe, and began their trade.

In the meantime, the trade to Canton and India become very extensive and profitable, and though conducted with silver, that silver was obtained principally from the islands in return for our produce; and nankeens, India muslins, and teas, were brought home and sent again to the West Indies or Europe, by which they became new objects for the carrying trade.

About this time the settlement of the Genessee country began largely to open those resources which have raised the State of New York to its present eminence. The cultivation of cotton became an object of importance in Carolina and Georgia, and the machinery to manufacture it to constitute a new era in manufactures. These soon caught the attention of the people of these States, and the vigilance of Mr. Hamilton, then Secretary of the Treasury, to turn the manufacture to the best account, and to encourage the growth of cotton by the improvement of its home consumption. Accordingly the import of cotton, which had thus far been obtained from abroad, was subjected to a duty, and some English artists conversant in the new machinery coming into these States were encouraged by the ministers with the influence, though not the participation of Government, to begin their operations, for which the works at Paterson in New Jersey, were formed; previous to which a woollen manufacture had been begun at Hartford, in Connecticut. At this period, it is worth remarking, that the export of cotton from Carolina amounted to 63,500 lbs. per annum.

In December, 1791, Mr. Hamilton, at the requisition of Congress, brought forward his celebrated report on the manufactures of the United States, which was the result of a thorough investigation of them pursued that year by conferences with persons, whether mercantile or manufacturing, who were conversant with them, and employing others in obtaining accurate information of their details. Upon this occasion, a mass of statistical facts and estimates were produced, which are or ought to be among the public records; but much of them is within the recollection of those who were conversant with them at the time, and some facts are represented which it was not within the scope of Mr. Hamilton's report to mention, particularly that the mass of manufactures in Pennsylvania, especially if we include a few adjoining counties of Delaware and New Jersey, exceeded all those of the other States together, and were certainly very important, as also were those of the New England States, through which manufactures were extremely diffused, though in no degree with the great features which they have since assumed.

tion to the affairs of these States since she had lost them, and it did not escape the vigilance of Mr. Pitt what vast resources were to be derived from sharing in the neutral commerce which our States were extending to every quarter of the world, and making England the emporium of it: a sort of tacit division of the neutral trade therefore ensued, which certainly produced great wealth to both countries even under the bad faith with which England maintained it. One effect of the treaty was that the supply of British manufactures was continued, and that large quantities of them were brought to the United States, and re-shipped to other countries.

By the act of June 5, 1794, domestic taxes were laid of 8 cents per lb. on snuff, and two cents on sugar refined in the United States, and additional import duties of 4 cents on manufactured tobacco, 12 on snuff, and 4 on refined sugar, to counteract them: the act, however, was confined to these objects, but the general act of June 7, taken in connection with the preceding acts of 1790 and 1792, form a tariff of duties, which, with the tonnage act, and those for the regulation of commerce, constitute altogether that general tariff which it is now a proper moment to analyze in order to form a just idea of the system of our revenue, and the protection of our labor.

Referring to this, it will be seen that our general commerce was protected by the tonnage of 50 cents on foreign ships against 6 on our own, and the discriminating duty of ten per cent. on imports in foreign ships, by the act for registering our ships, protection of seamen, erecting light-houses and harbors, and establishing the navy; foreign commerce by these, or establishing consulates and intercourse abroad; the carrying trade by the drawback of duties, and the coasting trade by the high tonnage duty on foreign vessels, which amounted to a prohibition of their engaging in it.

The fisheries were protected by their licenses, the tonnage duty on foreign vessels, by the duties on foreign fish oil and spermaceti candles, and a specific bounty given at first on fish exported, afterwards commuted to an annual tonnage bounty of from one to two and a half dollars, with various regulations for the conduct of fishing vessels and the general protection of commerce.

Agriculture was protected by the general duty on non-enumerated articles, and discriminating duties on foreign ships, where these were sufficient, as they were on wheat, rice, tobacco, wool and flour, by specific duties on others, as hemp and cotton, and by the duties on agricultural manufactures.

These agricultural manufactures were protected also by the non-enumerated and discriminating duties which were sufficient; on flour, corn meal, potash, naval stores and lumber, and by specific duties on indigo, malt, beer, cheese, candles, soap, starch, and bounties on salt provisions.

Those which may be termed the old staple and domestic manufactures of the country were protected by specific duties, as ships by tonnage, the home distilleries, and iron, with the larger utensils derived from it, as cannon and anchors, steel, paper, cordage, refined sugar, farming utensils, &c.

The furnishing manufactures, and a variety of others which had sprung from the above, were protected by specific duties, as nails, arms, and a great variety of articles of iron, steel, copper, tin, lead, books, stationery, &c.

The clothing manufactures not having been extensively established beyond domestic articles, were not, as I have already observed, pressed by protecting duties beyond the general ones, except on some articles which were established, as stockings, linens, print and colored cottons, and silks.

For the general protection and encouragement of manufactures, raw materials not furnished in the country, or in sufficient quantities, were made free, such as bullion, copper, tin, sulphur, saltpetre, plaster, hides, skins and furs, rags and dyeing materials, and such as were partially produced in it with sufficient protection, such as cotton, hemp, lead, iron and coals.

The great mass of the revenue was made to depend on those miscellaneous articles of extended use for comfort or luxury, which in all ages and nations have been made the fair objects of taxation, particularly distilled liquors, wines, teas, sugar and molasses, salt, coffee and cocoa, pepper and other spices, foreign fruits, china, and India goods, and the innumerable articles of use, luxury, and fashion, of the furnishing manufactures of Great Britain and the rest of Europe.

If we take the duties in a sectional view, we shall find that the fisheries and distilleries of the eastern States, the wheat flour and other provisions of the middle States, the tobacco of Maryland and Virginia, the naval stores and lumber of North Carolina, and the rice, indigo and cotton of South Carolina and Georgia, with the manufactures and productions of all, command a fair and equal attention, and that the whole system of the tariff was adjusted to the production of

revenue, and the protection and encouragement of the labor of the country, upon compromise of all local views to the general interest and prosperity of the Government, admitting the evident correction and alterations which should be found necessary to adapt for the purpose.

To the few objections which were made against the acts for forming this tariff, it was justly observed that, if revenue only was the object, as the acts must be beneficial to the labor upon which that revenue depended, it must be an object of the first intention to protect and encourage its sources; that as commerce was from the outset an acknowledged object of protection, it could not be otherwise intended than to nourish also the sources of which that depended, and still less intended to draw odious discriminations in labor from the gifts of heaven existing in the richness of the soil above, or its minerals below, or the labors of the plough, the spade, the anvil, and loom; and if it were the object of the congressional powers to provide for the general welfare, it was justly asked how that could be accomplished but by protecting the universal labor on which all depended for happiness, and if the protection was withdrawn, what would remain to which the term welfare could apply.

As this tariff was unquestionably a matter of compromise in which the States accommodated their clashing interests to the general good, it is proper to inquire who and what class were the parties to it, in which we perceive that the western States had then no efficient line of settlements being formed by the Alleghany mountains—but in other respects the interests of the Atlantic States were fairly represented as the fisheries, agriculture and manufactures of the north, and the planting of the south, were all then in powerful operation. Carolina and Georgia, in particular, had at that time the rich staples of rice, indigo, &c. and if these have since so far changed that the two first or either of them have declined, the last become greatly extended, so also have all the features of labor in the north, and the particular rise of cotton itself has been met by an immense extension of the manufacture of that article. It can scarcely be said, therefore, that any important change has occurred in the relative situation of the parties, a circumstance which it may be necessary more particularly to notice hereafter.

As the tariff thus made continued many years with little variation in its items, and as it was in its essential principles, a reference to it may be frequently necessary, for which it is convenient to view it in the tabular form annexed, constituted according to the same already noted.

From the period in question, and under the operation of this tariff, a great scene of improvement continued for the ensuing seven years, during which it is unquestionable that a vast accumulation of wealth was realized by the labor of the country, as will appear from the value of the exports in 1795 to \$47,000,000, and in 1797 to \$57,000,000: it is to be noted, however, that the agricultural and manufacturing interests were improved more by the general protection and the aid furnished to commerce than by any particular bearing in their favor. The failure of the crops in England occasioned the opening of its ports at particular seasons, though they were shut again as soon as its necessities subsided—yet, from this and other circumstances, agricultural products were generally high, but manufactures received no particular encouragement from the existing duties while the country was open to free import from England. The whole force of capital was so much employed in the commerce of the cities that it was scarcely attainable in that permanent form which agriculture and manufactures require. The staple articles of the last, however, entered into commerce, and were shipped to countries which they were unknown before, such as paper, bear, mahogany, more or less manufactured to Calcutta; and in the main, if manufactures did not greatly or decidedly improve, they at least maintained their standing, and they were certainly favored by the unusual high price of British goods during the war.

With respect to the manufactures of the two staple articles of cotton and wool, it may be observed that both began to assume a character beyond that of domestic manufactures, and so far as to increase with improved machinery and producing cloths for sale in the market. Both of them were established in Rhode Island, and cotton mills had found their way as far south as Delaware, where a respectable one was erected on the Brandywine in 1794. The manufactures, as to wool, were founded on the agricultural produce of the country; but as to cotton, there were some circumstances worth reciting: the first cotton mills were founded on foreign cotton from the West Indies, that of South Carolina, if at all in existence, being unknown in the north; so that in the tariff of 1789 the article was admitted as a raw material duty free, and in that of 1790 the duty of three cents was introduced at the instance of the southern gentlemen to protect prospectively an article they expected to realize. It seems that 64 bags were sent to Liverpool, yet so little were appearances in favor of the extension, that Mr. Hamilton, in his report of that year, considers the duty as an impediment.

to the manufacturer, and in 1796 it was complained of in a memorial from the Delaware manufacturers, but retained by the southern interest, when certainly from the high prices of foreign cotton, including the duty and the high prices also, or want of the article, together with the import of British goods, the Delaware manufactures tumbled to dust.

It was to the carrying trade that the force of the country and its capital was now directed, and this literally became extended to all the ports of the earth whose productions were exchanged between them, or brought home and carried again to Europe by an intermingled and almost boundless commerce, which was however exposed to the continual depredations of the belligerent powers, and at length involved us in a war with France in 1798.

During this period, the alterations of the tariff consisted of a duty on printing types, the founding of which was established in the country, of some explanations in other manufactures, and additional duties on molasses, brown sugar, tea, silks and printed linens, by the act of March 3d, 1797; of an additional duty on salt by that of July 8, of the same year; and by the act of May 13, 1800, additional duties on molasses, sugar and wines, with 2½ per cent. on the existing ad valorem duties, in all which the principles of the former tariff are recognized by a correspondent extension of the duties of 10 per cent. on imports in foreign ships, of drawbacks on refined sugar, distilled spirits, fish and salted provisions, and an addition of 33½ per cent. on tonnage bounty on fishing vessels.

Besides these, a domestic duty on carriages was imposed by the act of May 13, 1796, and on stamps by that of July 6, 1798; but on the occurrence of the war with France, it induced the resort to a direct land tax for \$2,000,000 by the act of July 14, 1798, with the various acts of that period for the defence of commerce.

The war, as is well known, lasted but a short time, and cannot be said to have had any material operation upon the exterior or interior labor of the country except its expense, as the French were not then in a state to commit further injuries to either than they had effected under the mask of peace for many years before.

On the recurrence of the peace in Europe in 1801, the situation of the United States became in some degree similar to what it had been on the close of the revolutionary war; or, rather what it will always be on the close of a war in Europe to which it may not be a party—that is, deprived of those adventitious circumstances which the situation of the belligerent powers is compelled to admit. The States had now, however, the advantage over the revolutionary peace in an excellent government, a large capital, and a great increase of its labor. But the nations of Europe, returning to their accustomed habits, and compelled to refit their shattered barks by nursing their resources, shut their ports and resumed their colonies; the carrying trade of the United States ceased, and they were compelled to resort to their own natural commerce founded on their own labor. It was then discernable how large a portion of their recent commercial labor was due to the fortune of war, and until their labor became accommodated to the habits of peace, the scene was a distressing one, of ships decaying in port, real property depreciated, the agricultural products reduced, and the large capital of the country unemployed.

It is unnecessary, however, to dwell upon the scene, as the renewal of the war in Europe made it of short continuance, and opened the carrying trade with all the advantages the United States had enjoyed before. It was not opened, however, to unmingled enjoyment, for, though it remained in some degree unmolested for the first three years, that is to 1804, yet, by degrees, all the circumstances which had occurred to harass it, returned with double force. We had, indeed, made a treaty with France, but it was soon found to be no peace; and England viewed the commerce we enjoyed only as a golden fleece, which no one but herself should be permitted to shear or possess. There now occurred indeed a period in which voyages to the Isle of France, Batavia, India, Canton, Manilla, and in fact every port of the eastern as well as western world, brought home their rich productions to be sent again to Europe, but liable in all their progress to be seized and pillaged under every circumstance of an insulting and disguised war.

This period lasted for five years, until it brought on those acts of public vindication and defence which were comprehended in the embargo and non-intercourse acts—in fact, in the measures of 1807, and subsequently, on which a few reflections may give a correct idea of their operation upon our system of labor.

It is well known that the republican party of the country, long sufficiently designated, had at all times been the distinguished, I will not say the exclusive supporters of that system of labor which had more immediately the object of improving our domestic labor, and promoting the self-dependance of the country. In this respect Mr. Madison had, in the first Congress, been the great leader of the tariff of July 4th, 1789, openly and unequivocally establishing the protection of manufactures as an important feature of the revenue laws. The sentiments of Mr.

Jefferson on this head are well known as adverse to the system of foreign intercourse or connexion altogether; and though his ideas changed in latter life as to commerce, they never changed as to the management of the domestic labor and self-dependance of the country, which was the great object of his life. In fact, no administration had admitted an idea of acting otherwise; on the contrary, our manufactures and agriculture were, as we have seen, the great objects of the Washington and Adams's administrations, and the rise of them had unquestionably a powerful influence in promoting our commerce under all the difficulties, hostilities, and expense, which had embarrassed it. It had, however, certainly been seen that our commerce, and particularly the carrying trade, formed the tangible point to involve us with other nations, and that, lucrative as it was, it had been the immediate cause of the difficulties and expense of the country; so that it had become an object of calculation how far its benefits should be prolonged at this expense, and what was the balance in its favor, which, under the conduct of the belligerents, lessened every day, with the prospect of being reversed, and in fact losing all that they had gained by it.

Other circumstances, however, came into operation after 1804—that is, the just protection of our citizens on the seas, and the insults of our ships, coasts and harbors, which left no alternative to a government justly mindful of the rights or character of the country. There is no question but the conduct of both the belligerents had become such as to leave the Government justified in attacking either or both, according to its own interests; but as war, in all its shapes, was to be avoided, if possible, for these interests themselves, the measures adopted, including the embargo and non intercourse acts, seemed to be a recurrence to the spirit and principles of our fathers in 1775, not unlikely to produce in the end the same beneficial result, and though, with some intermediate sacrifice, yet far less than that of war.

It is well known that the consequence of it was an arrest of our commercial labor, and that it was felt by the other departments of that labor in a manner that the injury to one will ever affect the whole; that it should ensure the application of capital to domestic objects, may be supposed, and was certainly the fact; but there was one circumstance which limited this, that is, the continual expectation of adjustment, during which the carrying trade was viewed like the sun in a clouded atmosphere, ready again to burst forth.

The want of precise statistical documents prevents our speaking with precision as to the number of manufacturing establishments formed during the embargo period. It seems certain that the old manufactures maintained themselves and increased, and of the new, (particularly cotton) it is said in a report of the committee of Congress of February 13, 1816, that prior to 1806 and 1807, establishments for manufacturing cotton had not been attempted but in a few instances and on a limited scale; yet it is quoted in the same document that the manufacture of cotton had increased from 500 bales in 1800 to 1000 in 1805, and from this time it increased most rapidly, as it was 10,000 in 1810.

In the meantime, an immense increase in the importance of the Union occurred by the organization of the western States—that is, Indiana as a Territory in 1800, and Ohio as a State in 1802, with a population of 70,000, by the purchase of Louisiana in 1803; which at once increased with a magic influence the territory of the United States, and brought new interests into view. Of the produce of these States, and the consequence likely to arise from them, we may observe that of Ohio, and probably of Indiana, to be very similar to the middle States of Pennsylvania and New-York, that is, of flour and other provisions, with hemp, flax, and some tobacco; Kentucky not dissimilar, but with a larger proportion of tobacco, hemp and flax, and Tennessee with a larger proportion of cotton. There was, therefore, something in the produce of these to assimilate them both to the middle and southern States. But Louisiana opened new objects of incalculable importance, the first of which was its rich mine of southern produce, particularly the great agricultural manufacture of sugar; and, secondly, the outlet it gave to the western States, and, in fact, the whole Union; the first of these was an article nearly of necessity for which the United States had been heretofore dependant on foreigners, but now nourished on their own soil, and the second shut out her territory from intrusion which forever would have marred her peace, and secured to them a vast and peaceful domain.

As if nothing should be wanting to complete this acquisition, the invention of steamboats by our immortal countryman Fulton occurred at a period so fortunate that we are compelled to acknowledge the finger of Providence in this, no less than in the improvement of the compass originally to guide to our shores. To these most timely discoveries our country owes its existence in the circle of civilized nations and its greatness; but it is impossible in the history of its labor not to consider with attention the immense effects of the steamboat; as a locomotive or labor-saving machine it is not only pre-eminent in itself, but, as it admirably explains the application of every other to our particular situation, we may justly ask and reflect in what manner and in what length of time our immense western waters, with the wide compass of our lakes, would have been ascended, and the vast area of our country opened, familiarized, and

united, by any of the means formerly in existence? And without stopping to fix the principles of an exact calculation, if we suppose as many goods now to be carried up the Mississippi by one man, as formerly by ten, we perceive that, in this respect at least, we have increased the force of our population from 13,000,000 to 130,000,000, and have probably anticipated a century in the improvement of our country in point of time.

No circumstance more clearly dispels the idea of our want of population for labor, and the absurdity of binding it to the clearing of forests and pursuits of agriculture, (still the theme of every British factor.) Is not our country settled, cleared, and cultivated, almost with the swiftness of a whirlwind; and productions of every description furnished as fast as means can be found to use them? No sooner is any art developed in Europe than, with the keenness and genius which our freedom inspires, it is taken up, improved, and applied to our situation upon a scale of magnitude and success that mocks all calculation. The great cause of this unquestionably arises from the total reverse of our situation to that of Europe: there, where an overplus of population requires bread, and every means of employment to obtain it, the result of machines is to rob the people of that employ, and devote them to misery. With us, machines supply the want of population, and furnish all that manufactures require, without taking from agriculture or our forests those who are to cultivate or settle them; while, in turn, the rapidity of our communications, and the immense increase of production, ensures plenty, and furnishes every sort of supply. In fact, we may perceive that our manufacturing population has become as essential to the progress of settlement westward, by furnishing it with necessaries, as by consuming its produce.

Such was the situation opened by our western country, and the means of supplying it, which together form a new era in the history of our labor, from whence our country, its government, laws, and improvements, all moved on a broader basis, and with features immensely extended.

Among the objects of the western country, though of inferior magnitude, we may notice the acquisition of coal, saltpetre and lead, in inexhaustible quantities, and probably many other minerals. Salt, which from the first settlement of the Genessee country furnished the interior of the country an immense extension of the fur trade, and the commencement of a trade with the Spanish provinces.

About the period in question some acts are to be noticed of an economical nature, such as will probably be required at every session of Congress, to modify the tariff to existing circumstances. By the act of March 27th, 1804, intended for the benefit of the manufacturers, a variety of raw materials, such as rags, bristles, regulus of antimony, clay, &c. are placed among the free goods, the duties raised on fish, cordage and many iron articles, powder, &c. and a light money of 50 cents per ton on foreign ships. By an act of March 3d, 1807, for continuing the Mediterranean fund, the duty on salt was repealed.

In the year 1810 we have for the first time some regular statistical documents of the manufactures of the United States, or rather an attempt to form them by the act of May 1st, which directed the marshals to collect them; but this duty, which, if ever performed with accuracy, would go far to put an end to misconception on the subject, was so miserably executed as to furnish no idea of the general state of public labor that can be termed exact, though it abounds in many valuable partial statements. It is said to have been tolerably executed in Massachusetts, Connecticut, New York, Pennsylvania and Virginia, but scantily in many cases even in them, and, as the errors are on the side of omissions, it of course falls short of the actual manufactures; yet from the enumeration, such as it is, we find the manufactures then very important, as the following items will show:

|                 |   |         |                                 |
|-----------------|---|---------|---------------------------------|
| Wool and cotton | - | 1,776   | carding machines                |
| "               |   | 1,682   | fulling mills                   |
| "               |   | 122,647 | spindles                        |
| "               |   | 325,392 | looms                           |
| Iron            | - | 153     | furnaces, producing 54,000 tons |
| "               |   | 330     | forges, " 24,500 bar iron       |
| "               |   | 316     | trip hammers                    |
| "               |   | 34      | rolling and slitting mills      |
| "               |   | 440     | naileries                       |
| Paper           | - | 179     | paper mills                     |
| Leather         | - | 4,316   | tanneries                       |
| Oil             | - | 393     | oil mills                       |
| Gunpowder       | - | 208     | gunpowder mills                 |

## DOCUMENT 16.—No. 3—Continued.

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|----------------|----------------------|
| Distilleries   | 141,191 distilleries |
| Breweries      | 132 breweries        |
| Sugar refining | 33 sugar refineries  |
| Glass          | 22 glass works       |
| Potteries      | 194 potteries        |
| Snuff          | 82 snuff mills       |

The value of various manufactures returned, stands thus in round numbers :

|                                                                                 |              |                    |
|---------------------------------------------------------------------------------|--------------|--------------------|
| Clothing manufactures of the five articles of cotton, wool, flax, hemp and silk | \$45,500,000 |                    |
| Hats                                                                            | 4,300,000    | 50,800,000         |
| Cordage                                                                         |              | 4,200,000          |
| Iron                                                                            |              | 14,300,000         |
| Other metals                                                                    |              | 2,700,000          |
| Leather                                                                         |              | 18,000,000         |
| Paper                                                                           |              | 2,000,000          |
| Glass                                                                           |              | 1,000,000          |
| Soap, candles; and whale oil                                                    |              | 1,700,000          |
| Distilled liquors, and other manufactures of grain,                             |              | 17,500,000         |
| Wood manufactures                                                               |              | 5,500,000          |
| Marble and stone ware                                                           |              | 500,000            |
| Earthen ware                                                                    |              | 200,000            |
| Refined sugar                                                                   |              | 1,500,000          |
| Various miscellaneous articles                                                  |              | 8,500,000          |
|                                                                                 |              | <b>128,300,000</b> |

This, as will be seen, included not the agricultural manufactures, such as flour, salted provisions, potash, &c. and is deficient in the amount of others, so that it gives quite a diminished view of the manufactures of the United States generally, yet it shows that, in the main, they were highly important, and it is of the more consequence to have the view of them such as it is at this period, as we are on the point of entering on one of far more importance.

There continued throughout the years of 1810 and 1811 a considerable improvement in manufactures arising from the disturbed state of public affairs and the appearance of a war, the diminution of commerce and want of employment for capital, and also from many other preparatory circumstances, particularly the increase of wool by our agriculture, the continued arrival of merino sheep, and large importations of merino wool during the war in Spain. All these gave a spirited beginning to the woollen manufacture; indeed, the supply of raw materials now furnished by agriculture, especially of cotton and wool, formed a just preparation for what soon followed, that is the establishment of our manufactures upon an extended basis, stimulated by the war with England.

This war, without entering deeply into its political features, was in point of fact no other than the consummation of the existing quarrels with England, engendered by her hostility to our carrying trade, of which it may be said that its very prosperity brought on its destruction, and that it actually involved every other department of labor in expenses which they were obliged to supply. It is certain, however, that if ever a war was necessary to the character of a country, this was so: from the long forbearance of the United States they had come to be considered in Europe as a race of mercantile speculators whose only object was gain, for which they would submit to every insult without the power or courage to resent it; this was particularly obnoxious to both the belligerent powers, who were in a high state of military irritation against each other, and viewed with contempt those who were not impressed with it. If, therefore, in this situation, the war had closed upon the scene of provocation without a struggle to repel it, such a character would probably have been fixed on the United States as it would have been difficult to remove, and such as would have formed the immediate principle of action in any future war.

With respect to our domestic labor and our manufactures in particular, it will be seen that, while all the fortunate circumstances of the war thus far had been enjoyed by our commercial labor, this was the first instance in which the turns of fortune had thrown any particular advantages upon our manufactures. Now, however, this department of labor, in conjunction with agriculture, rose to the actual support of the country, under the absolute decline of commerce, the fisheries, and all that required exterior support or co-operation.

The manufactures begun on the declaration of war in 1812 may be considered chiefly as a



rapid extension of those which had existed before—that is, as to the objects of them, and they were bent to the immediate support of the country from the following direct causes:

First—Its necessary wants, which now became extensive and pressing.

Second—Its deprivation of foreign supplies.

Third—The large unemployed capital and labor of the country.

Fourth—The duties, which were immediately doubled.

It is, however, unnecessary to mention the latter, as the wants of the country, and other means of supplying it, operated beyond all duties, or, in fact, all other protection.

What was the exact number of manufactures established during the war, and their product, it is impossible to mention in detail for want of documents, and it would be very uncertain to describe them from conjecture: it is certain, however, that most active and spirited exertions immediately ensued. One manufactory on the Brandywine, begun in June, 1812, produced excellent superfine cloth for sale in the following December; in fact, a prodigious extension of them, an investment of capital took place through the years 1812, 1813, 1814 and 1815, for a period altogether of three years, during which the idea of a war with England, the only country from which competition was to be feared, was powerfully operative; and of this war the prospect of a long continuance was confirmed by the conferences of Ghent almost to the moment of peace. The stimulus for manufacturing establishments, therefore, was powerful and continued, and to those erected at first, upon the exigencies of the moment, larger and more improved ones were added, with the completest imitations of European machinery.

It is extremely well known that the manufactures furnished a large quantity of most useful articles for the country, and that, although perfection could scarcely be expected at first, superfine cloths were made equal to any imported. It has been objected that the prices were very high, and that the manufacturers showed a disposition to press upon the wants of the country: this, however, is incorrect in point of fact, and as far as high prices existed, they arose from other causes. The prices were actually first raised by those who had foreign goods on the breaking out of the war, or obtained them afterwards. It is a well known fact, that on the intelligence of the war with England, the British Government permitted the return of our ships with large supplies, but this did not prevent their capture in our own ports by our own armed vessels, and when the articles came into the market, they were sold at enormous prices without imputation on the merchants who raised them.

The manufacturer, however, had not only this rise of price before him, but the circumstances occasioned an immediate rise of the raw material; merino wool soon increased from 90 cents to \$3 per lb., and cotton to 30 cents, so that agriculture obtained the first great benefit of the advance; besides, the cost of the establishments were throughout extremely high, and the peace came on before the market had been reduced by competition, which would have been the certain effect of the numerous establishments.

The clothing manufactures have been much dwelt upon in speaking of the establishments generally, but the same circumstances apply to all other articles of necessity, except indeed a few which were injured by the war, particularly paper, which declined far want of the usual consumption of business, letters having so far lessened that the post office did not pay its expenses.

It is unnecessary now to dwell upon the detail of manufactures during the war, for they are much within general recollection; and a few features of them will revive all that is necessary. It is notorious that a vast portion of the capital and application of the country became invested in them, that it most eminently supplied its wants, that it kept alive the productive labor and wealth of the country when every other means had failed, and that it constituted a most important branch of private and public investment.

It seems unnecessary, also, to dwell upon the tariff regulations during the war, as most of them became inactive with commerce itself, and others were altogether of a temporary nature. It is, however, correct to observe, that although induced most particularly in support of our commercial labor, the resources from that altogether failing, the war had to depend on other means—that is, upon direct taxes on land to the amount, first, of \$3,000,000, and, secondly, of \$6,000,000, and upon carriages, licenses for selling goods, sales at auction, and on the manufactures of refined sugar, distilleries and paper, and, lastly, upon the war loans.

When the short period in which our more extensive manufactures thus rose and had to flourish is considered, it is useful to reflect what aid and comfort they gave to the country at the time, and what a prospect they opened for its support; nor is it possible for any candid mind to withhold a just allowance for irregularity that might appear at the conjuncture, which was little in point of fact, and was rapidly subsiding into a state of order that promised the most permanent benefit to the country. One great lesson was certainly taught—that is,

how important it is to nourish these domestic resources upon which war itself must depend when it occurs.

Upon the peace of 1815, Europe and the United States returned to a situation which the existing generation had scarcely ever known. Europe, after a war of twenty-five years, in which all her ancient institutions were destroyed or changed, had to remodel her situation to a state of peace, in effecting which a general convulsion in her system of labor, economy, and finances, occurred, before her peace system was established.

In this situation no country sooner retrieved its prosperity than France itself; the tremendous interdicts of Napoleon against the commerce of England are well known, and they were founded on a knowledge that it impaired his resources, but he nursed the domestic arts of his country, and brought them to the supply of his armies and people, and to form one of the finest models of a self-dependant State, cultivating its agriculture, and forming its productions by manufacture into every sort of resource, without exterior aid. France has never been deemed a manufacturing country, but it was now found to possess some of the richest in Europe: its silk, as an institution of manufacture, turning to effect the produce of the soil, was, perhaps, taken altogether, unrivalled; its cloths, cutlery, glass, porcelain, were at least among the best in Europe, and when a return of peace opened a free exhibition of its cotton manufactures to England, the artists of Manchester were astonished to find them of an excellence which they had not attained, and the establishments of Rouen superior in magnitude to their own.

The same circumstances attended the states of Germany which had always depended upon their agriculture, and excellent manufactures of cloth, linen, iron, glass, and in fact every article of domestic use, without the aid of commerce, or supporting that commerce otherwise than with the surplus of their productions.

Perhaps none of the States of Europe had a greater struggle to place itself in a state of fixed prosperity on the return of peace than England itself. Though stored with the wealth of the world, acquired during the war, its situation had become so complex that the movements of every other State to regain its lost establishments disturbed it, and, above all, its manufactures multiplied, as they have become in some way or other affected by the accidents and even the prosperity of all mankind, so as to compel the nation actually to be in a state of war with every other country, not, it is true, of arms, but that of supplanting their arts by every stratagem it can use.

In the struggles of Europe to regain its prosperity, it is necessary to notice two important circumstances: first, the almost total exclusion of American produce, so at least as to admit it only under the pressure of rigid necessity; and, secondly, an equally universal desire to make the United States the receptacle of its arts. Perhaps no nation, considering the extent of its trade with them, offers less reciprocity than England, arising indeed from the necessity of cultivating every resource for itself or its numerous colonies, whom it nourishes by every means in its power to supplant the United States in the raw materials it is obliged to take from them; and it is thus that every means are used to rival our great staple of cotton, the only one of importance England now takes from us.

Since manufactures have become, as they are, so important an object of commerce and national industry, it is proper to notice one feature of them which operates most powerfully upon those States who do not make at least the most useful ones themselves, that is their quality, in which there is a most important distinction in Europe between those made for domestic use and those for sale: the first of these is generally excellent, such as the cloths, prints, and most other manufactures of France and the continent, which, whether coarse or fine, are of substantial quality, but too high to be sent abroad where articles made for sale are interposed. No nation understands this distinction or has turned it to more account than England, where every article for domestic use is made in different towns, of different materials, and of excellent quality, but too high to be sent abroad, while, in the mercantile manufactures of Birmingham, Sheffield, Manchester, and Leeds, every artifice is used to form articles of seducing cheapness. Hence it is that we have cast iron cutlery, false dyes, and cloths of the most flimsy texture, which, with the fascinating and half yearly change of fashion, are infused, by every possible stratagem at once to sap the wealth and destroy the rising germ of arts in every country that does not watch and defeat this hostility to its institutions, of which, above all others, the United States are the object.

Among the means resorted to by England to revive her prosperity, the measures of the late Mr. Huskisson for some time gave an idea of opening a free trade, and attracted the attention of those who were disposed to favor it. On examining these measures, however, they neither went, nor were intended to go, beyond those useful changes in its tariff which at every session of Parliament the British minister finds it necessary to make for the double purpose of finance

and regulation of its labor: such as they were, they were considered by the ablest statesmen as among the innovations of the day, and of very dubious character; but in their utmost extent they were but as a drop in a bucket to the vast system of British restrictions. If, however, under the idea of opening a free trade, other States could be so deluded as to throw down the barrier of their useful restrictions, no opportunity could be so desirable to Great Britain, who, by her immense capital, and the overpowering state of her arts, is of all nations the one to inculcate free trade to the rest of the world, and establish a universal pre-eminence by its means.

Such are a few of the measures of Europe to regain its former situation since the last peace, to which it is merely necessary to add, that those who had colonies remaining have turned again to nourish them and their own trade by excluding other States, and shutting their ports at home, except when a strict calculation of their interests opens them to other nations. All, however, have turned with one accord to nourish their domestic resources by their agriculture, increasing its products by manufactures, abstaining from a wasteful introduction of foreign articles, and supporting their commerce upon the basis of their surplus productions; in fact, by a system of labor of one common feature and effect, by which it is most certainly that the States of Europe have repaired the waste of war, and restored themselves to a flourishing situation.

The United States had to encounter the same difficulties as the States of Europe in returning to a peace establishment. Their carrying trade had ceased with the adventitious circumstances that gave it birth: it sunk, therefore, without the hope of a revival, yet it left behind impressions on the race of merchants who had been enriched by it, which have had a powerful effect on the consideration of our commerce ever since, that it is this trade which actually constitutes that commerce properly speaking, and that it ought to be the great object of our labor. Such certainly is the impression of our cities, even in preference to our coasting trade, or in fact all other trade but one—that is the direct trade to England for her manufactures; and though these impressions cannot be avowed, they are too discernible not to be felt. Our legitimate general commerce indeed opened again with a great extension of surface and ports, but with the universal rivalry of the whole world, particularly England with her innumerable objects to support it, against the few we have had to furnish.

Our commerce, therefore, remained inefficient for want of objects to renew it, and so did our fisheries, in fact all our exterior labor. At home, agriculture was universally depressed for want of markets, and with it real estates of every description declined, and the whole system of our money and capital became deranged. In this situation a very deplorable inattention occurred towards our domestic labor, amounting to almost a spirit of hostility against our manufacturing establishments, that they had not, under the extortions of importers and their own enormous expenses, kept down the prices of goods during the war, even before there was a possibility of maturing their own operations. Immediately on the peace the war duties were repealed, and the tariff of April, 1816, established; but in the meantime an immense import of British manufactures coming in, with all the fascinations of cheapness, overpowered all the institutions of our domestic labor, and they fell with the rest.

The importations of 1815 and 1816 are stated at \$240,000,000, and the exports of the United States at \$135,000,000, leaving a balance of \$105,000,000, which, whatever may be said on the subject, had to be paid, and produced an immediate drain of specie, the distress of which was, as it ever will be, directly felt by every class of the community in the stoppage of the bank accommodations, the scarcity of money, and universal embarrassment.

This was deplorably felt in every State of the Union, and in none was it more loudly complained of than in the southern States, for its just and actual cause independent of all tariff regulations, which were not then adduced as its cause, nor was there indeed any cause to complain of them. It is well known that the high prices which England paid for South Carolina cotton, especially the Sea Island, and the uncertainty of supply in case of a rupture such as that of the war, induced her to encourage the cotton of Brazil, and to use her utmost exertions to raise it in India. The effect of this came into operation in 1818 and 1819, when the Brazil cotton was found no bad substitute for Sea Island, and though the India cotton was inferior to that of the United States, yet it effected the great purposes of England to reduce the price of American cotton, and to offer a resource in case of difficulty with the United States on which she could rely, and probably overcome the disadvantage of quality by her arts. The reduction of the price of cotton, however, by these means, was the first circumstance which reduced its value to the southern planters, and united as it became with the immense cultivation of the article, it appears at once the real cause of southern distress, and the best lesson in favor of a home market.

The general distress of the country cannot be better described than in the report of Mr. Crawford, Secretary of the Treasury, in February, 1890, in this brief sentence—"Few examples have occurred of a distress so general and so severe as that which has occurred in the United States." And it would seem that this was the opinion of the southern gentlemen generally, as in 1823 when this distress had attained an extreme point, it is so represented by Mr. Drayton and others in a memorial to Congress, in which it is said that the cultivation of cotton had been so prodigiously extended in South Carolina and other States, as well as in other countries, that, notwithstanding the unprecedented increase of the trade with England, every market in Europe was glutted with it.

These appear to be the actual causes of distress in the southern States, and as we proceed northward the same cause may be applied to every State and every article of produce in succession. Commerce had no obstacle but what arose from its own situation, and wanted no protection that it could not command; but the universal resumption of it by other nations, and the actual want of markets abroad, palsied or destroyed equally our shipping and navigation, and the naval stores, lumber, tobacco, provisions and fisheries, from south to north, all felt indeed the deadly hand of distress as to commercial and agricultural labor, which fell also with tremendous weight upon the institutions of domestic labor in which so vast an amount of the wealth of the country had been so recently invested. Nearly all the manufacturing establishments of the country were broken up, their owners ruined, and the property sold at enormous sacrifices: it may be said indeed that nearly the whole of these establishments changed owners, and were taken up at successive abandonments and reductions of capital, all which however proved but successive steps to ruin.

Against this domestic source of distress there seemed a remedy more feasible than any other, for if we could not command the conduct of other nations in reviving our trade abroad, we could at least follow their example in repelling their influence upon our institutions at home, and hence the people justly resorted to the Government for protection on those points in which remedy seemed in its power. Accordingly, the appeal to the Government produced the tariffs of 1894 and 1898, which were successive experiments to arrest the injurious operations of other States, particularly the inundation of British manufactures, and to preserve at once our manufacturing establishments, the agriculture which depended on them, and the exhausting drain of capital and wealth.

Our revival from distress, however, though it has most certainly been aided by the acts of Congress, has mainly depended upon the industry and enterprise of the people, and the opportunity for exercising it. Perhaps it may be said to have depended more upon population than any other cause; the operations of the tariff seems to have been more active, and succeeded at a lower rate in the northern States, which have the largest and most active population, and to have gone progressively south; that is, the revival of a prosperous state of labor seems to have been more easy, more effectual, and at lower rates of tariff in the northern, middle, and western States, than in the southern, where, however, if more slow, the effect seems equally certain in the end, since the rich productions of the south must command enterprise from every other quarter; and it is but just to remark that it did feel its influence to a great extent in the high prices of its produce during the war, when other markets were abated.

To the cause of population we must add the operation of local circumstances and opportunity. In the southern States their rich soil gives in one direct object what is to be sought for in the northern States in many, and of course by more enterprise and variety of applications and labor. These circumstances indeed have dictated to the several States the means of relieving their distress, and the points to which the benefit of regulations could be applied; in fact, as immense deal has depended on mineral productions, mill seats, and the agricultural productions of a hardy soil.

Taking Pennsylvania as a type of the northern district, these circumstances have always commanded the application of her labor, and now more than ever, since, of all her agricultural productions, she has scarcely one that can be sent to a foreign market, but at a price at once depressing to her commerce and agriculture. Necessity, therefore, has compelled her to change her commercial character, and apply her vast capital to her internal resources as a great manufacturing State, which is now undoubtedly her true character, becoming more confirmed every day from her immense stores of coal, iron, and other raw materials.

But Pennsylvania is but one of the great mass of the northern, eastern, middle, and western States, whose population and productions are of the same character, and dictate the same employments; nor can it be denied that the progress of population southward is rapidly extending the same enterprise, and infusing the same domestic industry to all the objects of the south, either directly on the spot, or by bringing them to the points where enterprise can be

come successfully exercised, so that the south is becoming more and more comprised in the circle of domestic employment.

In the meantime there has certainly been no want of encouragement or protection to commercial enterprise, of which the port of New York is an eminent instance to show how, on the decline of the adventitious circumstances of the war, commerce had been resuscitated by an immense coasting trade, and such foreign trade as our intercourse abroad admits.

I have mentioned the tariff of April, 1816, the first general one after the war giving protecting duties to woollen and cotton cloths of 25 per cent., hempen 20, salt 20 cents per bushel, and iron 45 cents per cwt., and by the acts of April 20th, 1818, iron was raised to 75 cents. All these were in the same spirit of protection; but they failed from their insufficiency, and occasioned the tariff of May 22d, 1824, which was general as to the protections then claimed, and effectual as to some; not so however as to many, which led to the tariff of 1828.

A considerable revival of the manufactures seems to have followed the tariff of 1824, especially in the eastern States; but that of 1828 appears to have been thoroughly effectual, and for the last few years there has certainly been an universal revival of labor in all its forms, on the best of all basis, that is a moderate price of land, labor and produce, rewarding the natural industry of the country without any foreign adventitious aid. In this way the fisheries, especially the whale fishery, has become prodigiously active, and with it a rich scope of enterprising commerce formed without injury to other institutions of the country. The town of New Bedford, the great seat of this trade, though founded in the revolutionary war, is the next in extent of tonnage to New York, and is also distinguished for its manufacturing establishments. New York possesses a commerce founded at once on the coasting and foreign trade, which certainly has no impediment to its increase. The produce of the middle States, though low and destitute of foreign markets, is at prices which moderately pay the farmer, but agriculture receives its best support actually from the manufacturing establishments. The quantity of sheep is estimated at 20,000,000, valued at \$40,000,000, and every manufacturing district is distinguished by its agricultural improvements. Of the southern produce, that of Virginia and North Carolina is at least upon the same footing as that of the middle States, and the sugars of Louisiana have attained the surest of all markets in the consumption of the country: this is also rapidly rising to the support of cotton by the increase of the manufactures, which seem to open an unbounded increase of the article in every shape for home consumption, with no small prospect of diffusing them to great extent abroad.

To this state of the country we may add the energy and vigilance of an excellent administration, which has already explored and remedied most of the entangled interests of the country, and is devoted to restore and establish them all with a vigorous and masterly exertion.

In this flourishing situation it would almost seem that we might leave the institutions of our labor under the parental care of the Government for time to mature their prosperity, but since the prospect for extinction of the national debt, and the wishes or complaints of a large portion of the people point to their consideration, it is but just that they should receive that attention to which the measures of Government are at all times entitled, and the respect which is certainly due to the representations of an important part of the people.

With respect to the constitutional doubt on the subject of the tariff, it may be observed that it has now become so much the practice to start this difficulty upon almost every public measure, and to make it the ground of opposition to the Government when no other exists, that it should seem the most necessary preliminary step to settle some test for adjusting this great question itself, in which it should appear that we cannot act more safely than by following that course which has perfected the fabric of our laws and almost every other institution, that is, by respecting the solemn decisions of the Government, sanctioned by time, especially when those decisions have been made by the founders of the constitution, and at the moment when the causes and principles which brought it into effect were fresh in the minds of the people.

The constitution itself, after guarding the simple and essential points on which the freedom of the people reposes, appears to have left the most liberal powers of construction as to the mode of carrying it into effect, with the government it created, which its framers well knew would at all times be the just and powerful representative of the people, scarcely inferior to themselves. Decisions by that Government, therefore, uniform from time to time, must be considered as of great force; and their application at present to the Bank of the United States constitutes perhaps the best argument in its favor, but upon no subject do its decisions appear more uniform than upon the tariff; and although one important object for establishing the duties on imports will cease with the national debt, still two out of the three declared at the time of forming them, as of equal effect, remain, viz. the support of Government, and the encouragement and protection of manufactures.

There is no one point of the constitution in which it seems more necessary to obtain a clear construction than that most liberal one of providing for the general welfare, by which it should be intended that Congress should exercise a wide discretion in doing all those acts which contribute to the happiness of the people: and this seems peculiarly applicable to the encouragement and protection of that labor and universal employment upon which every one depends, not only by guarding it from all exterior injuries, but encouraging it at home by those acts which the people cannot effect for themselves; for which purpose the removal of existing taxes, or the levy of new ones, seems the great object, not only of the constitution and Union, but in fact of Government itself.

I have endeavored, in the foregoing notes, to show that the institutions of a tariff law: point of fact, have existed in every nation coeval with its commerce; that it has equally embraced all the objects of labor, and that no great object of internal labor has ever been matured without those regulations which are justly comprised in its more extended name, as I have not seen in any publication on the subject any contradiction of this which a course in point of fact, or is not drawn from the restrictions of feudal times, with which many States are still most grievously oppressed, or from the want of wisdom in the construction of the acts of regulation themselves.

What is meant by free trade it is difficult to collect in the publications of the day, viz. instead of a broad and liberal definition of its principles, are chiefly confined to explanations and complaints against particular manufactures. If an universal free trade be proposed, as some have imagined, it requires so much the accordance of all mankind that it would be scarcely wise in any one State to begin it; but if restrictions of any kind are to remain, it comes to the same point as a tariff of commercial regulations, depending on the measures with which they are formed.

The constitutional objections adjusted, there would remain to the Government the most arduous but not less important exercise of its powers in the review of its tariff, which, from its nature, it constantly and essentially requires to adjust the revenue, finances, and labor of the country, upon principles of universal and equal accommodation. This adjustment is now decidedly requisite in many of its details, which are incongruous and inconsistent with each other, a circumstance that will always more or less occur; and the preparation of the measures necessary for the purpose rests with peculiar propriety upon the minister to whom the administration of the finances is committed, but it is not only essential that he should have all the aid necessary to a thorough investigation of the subject, but that in every step of the consideration of it there should exist the most perfect statistical documents of the whole course of the labor, wealth and resources of the country, in all their details. This, like a perfectly well adjusted account, would of itself dictate many of the measures to be pursued, clear up doubts and difficulties which occur, and leave even the points for discussion clear, where differences of principle or opinion exist: above all, it would have a happy tendency to give that information of the establishments of the country to its distant sections, the want of which is perhaps one of the greatest sources of difference. On this head it should seem that the measures recently instituted by the Secretary of the Treasury would produce the result, if time were given for the diligent investigation they require. In England, a thorough investigation of this kind is the basis of every financial operation, and is essential to the minister who is or ought to be the best informed person in the kingdom upon all its operations, nor would it be less important here, in every stage of legislation, to Congress itself.

After correct information on the subject, it is of the utmost importance that we should come to its discussion with the spirit of compromise which the whole history of our constitution requires, and that, while the importance of the institutions of the north are justly estimated almost as the fabric of society there, equal attention should be bestowed on those of the south after allowances on both sides for what feeling, and perhaps an honest but warm imagination has painted as to present distress, it is an object to consider how much of this distress itself arises from the universal depression which followed the late peace, how much it has been subdued by industry step by step, till it will soon yield to it altogether, that the institutions of one part of our country are laying the most permanent foundations of relief to the rest, and how vitally essential it is that the great fabric of our common labor and Government should be supported.

Of the precise measures to be adopted at present, it is proper to observe that individuals not connected with the Government are rather called upon to furnish facts and information than opinions, which perhaps will be hazarded most by those who are the least capable of feeling their importance; and, unquestionably, it must be obvious that the arrangement of these measures in the first instance, can be effected by no one so well as by him before whom the whole

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mass of facts must come into review, nor better decided upon than by the Government to whom both the arrangements and facts will be submitted. On this subject, it is however correct to observe, that the late report of the Secretary of the Treasury already contains a most lucid preliminary to the subject in point of principle, and one sentiment among many may be selected as a just ground of confidence to all who are disposed to think liberally on the subject, viz.: "These duties, (alluding to those in some of the most important branches of manufacture) could not be materially changed at present, without the effect already deprecated. No objection is perceived, however, to such a gradual reduction of them in future, as may withdraw the aid thus afforded, as the growth and stability of our manufactures will enable them to dispense with it, to such a degree at least as will, with the aid of an increase of population and the means of consumption, still leave a revenue adequate to the expenditures, or until what may be withdrawn from them may be levied on other articles which may be found to admit of it."

When to these and other sentiments expressed in the report, the result of the information now in progress is added, there is every just reason to hope that this one, out of many entangled circumstances which have yielded to the discernment of the Secretary and the firmness of the Government, will receive the same confidence from the country that has been bestowed upon its arrangements abroad and at home.

Since, however, opinion is in some degree demanded, and may be useful where suggested with moderation, it may not be improper to mention that much of the utility of a scale for the reduction of the duties on protected articles depends upon time, particularly the time at which they are begun. Institutions of labor unquestionably acquire permanence—obtain it from successful operation, and become enabled to endure shocks which would utterly overthrow them in their outset: such permanence many of our manufactures have attained, and others are attaining, and the consideration of these are among the most important objects of constant review and attention; but the protection seems necessary to both to counteract the deleterious effects of foreign articles of the worst fabric, and if the duties at present go even beyond the point of protection, they seem useful in correcting the effects of fluctuating importations which most materially affect them. In the course of last year there was a large importation, which, however, did not seem to affect our manufacturing institutions (though it would do so if continued,) more than it has affected other institutions of the country, particularly the money market, and through that the country generally, by its inevitable consequence of a demand for specie.

It is probably worth while to mention another mode of settling the different opinions on the tariff, that is by retaining the duties especially on the protected articles, and giving the surplus of revenue to the southern States either in bounties on the export of cotton, or in such other way as may be devised. This would retain their operation against foreigners for the common benefit of the country, and the measure itself is sanctioned by what has been done in adapting the duties on salt to the fisheries and salt provisions, and in several other instances.

JOSHUA GILPIN.

KENTWEE, NEAR WILMINGTON, (DEL.,) May 1, 1832.

## ANALYSIS OF THE TARIFF, 1794.

| Commerce.                           |     | Fisheries.                                |      |
|-------------------------------------|-----|-------------------------------------------|------|
| Tonnage on American vessels         | 6   | Tonnage on American vessels annually      | 6    |
| Am. built, but not owned            | 30  | “ foreign, each voyage                    | 50   |
| Foreign vessels                     | 50  | Licenses for vessels of 20 tons and under |      |
| Coasters                            |     | to American vessels                       |      |
| American annually                   | 6   | Bounties annually to American vessels     |      |
| Foreign, each voyage                | 50  | per ton, 1 80 to                          | 2 75 |
| Licenses to vessels of 20 tons      |     | “ On pickled fish, per bbl.               | 18   |
| and under, to American              |     | Duties on foreign oil per cent.           | 15   |
| vessels only                        |     | “ Whalebone                               | 10   |
| Duties of discrimination general to |     | “ Dried fish                              | 10   |
| foreign vessels                     | 10  | “ Sperm candles per lb.                   | 6    |
| on teas per lb. 2 to                | 16  | “ Discriminating on foreign               |      |
| on India goods pr. ct.              | 12½ | vessels                                   | 10   |

## DOCUMENT 16.--No. 3.--Continued.

## MANUFACTURES.

## MISCELLANEOUS.

## Clothing.

## Articles of use and luxury.

|                              |   |     |
|------------------------------|---|-----|
| Tool manufactures, per cent. | - | 10  |
| Cotton do.                   | - | 10  |
| " printed                    | - | 12½ |
| " nankeens                   | - | 12½ |
| " mens                       | - | 10  |
| " printed                    | - | 12½ |
| Empen goods                  | - | 10  |
| Shirts                       | - | 15  |
| Socks generally              | - | 15  |

## Free Goods.

Dyeing materials,  
 Allion,  
 Lin,  
 Copper in pigs and sheets  
 apis calaminaris,  
 Old copper, brass, and pewter  
 on wire  
 Saltpetre  
 Sulphur  
 Plaster  
 Limes  
 Kins  
 Wares  
 Woods for cabinet wares

|                                    |               |     |
|------------------------------------|---------------|-----|
| Spirits of grain per gallon, 23 to | -             | 50  |
| " of other materials 25 to         | -             | 46  |
| Wines                              | 20 to         | 56  |
| Teas                               | per lb. 10 to | 50  |
| Salt                               | per bush.     | 12½ |
| Sugars, brown per lb.              | -             | 14  |
| " clayed                           | -             | 34  |
| " lump                             | -             | 64  |
| " loaf                             | -             | 9   |
| Molasses                           | per gall.     | 3   |
| Coffee                             | per lb.       | 5   |
| Cocoa                              | -             | 4   |
| Chocolate                          | -             | 3   |
| Pepper                             | -             | 6   |
| Pimento                            | -             | 4   |
| Spices                             | per cent.     | 15  |
| Oils                               | -             | 15  |
| Fruits                             | -             | 15  |
| Pickles                            | -             | 15  |
| Millinery                          | -             | 15  |
| Haberdashery                       | -             | 15  |
| Perfumery                          | -             | 15  |
| Jewelry and lace                   | -             | 15  |
| Medicines and drugs                | -             | 15  |
| Cosmetics, balsam, &c.             | -             | 15  |
| Upholsters' wares                  | -             | 15  |



## DOCUMENT 17.—No. 2—Continued.

|                                        |   |   |   |   |   |                 |
|----------------------------------------|---|---|---|---|---|-----------------|
| 1,500 tons ore, at \$3 50              | - | - | - | - | - | \$5,250         |
| 175,000 bushels charcoal, at 37½ cents | - | - | - | - | - | 5,250           |
| Expenses of furnace                    | - | - | - | - | - | 4,500           |
| Wear and tear                          | - | - | - | - | - | 1,000           |
|                                        |   |   |   |   |   | <u>\$16,000</u> |
| 250 tons pig and scrap, at \$30        | - | - | - | - | - | \$7,500         |
| 250 tons castings, at \$60             | - | - | - | - | - | 15,000          |
|                                        |   |   |   |   |   | <u>\$22,500</u> |

500 tons iron, leaving a profit of \$6,500 per annum, yielding an income of say 20 per cent. on a capital of \$30,000.

The owners say they have been engaged here and elsewhere in the manufacture of iron for the last twelve years, and have witnessed a decline in the price of castings from \$120 to \$60 per ton, entirely the consequence of domestic competition. At this reduced price, they say, "that any material reduction in the present protecting duty would cause ruin to their business, as there is no situation entirely exempt from foreign competition."

*Remarks.*—This furnace appears to yield a greater profit on the quantity of iron made than others which have been heard from. By comparison with the other estimates given in, the labor and expenses, \$4,500, deduct one-half of them incurred by the Union, Pine Grove, &c. &c., there is no just reason for supposing that there would be this great difference in these items between furnaces situated within fifty miles of each other, using the same method of manufacturing, and employing hands at similar rates of wages. The one costs the proprietors more than double the price it does the Sciota, Franklin, &c. &c., from which it might be inferred that the proprietors are mistaken in the amount of their profits, say at least one-half. Their lands, however, improve in value as they are cleared, and on that account may make as great a profit as their estimate would show.

Ohio Brush Creek Forge, in Scioto county, was established by John Means & Co. in 1829; water power: the capital invested is about \$12,000; lands attached to the forge amount to \$2,300, including the water privilege; about \$7,600 are invested in buildings, machinery, &c.; the balance of capital, say \$2,100, is active; 27 hands are employed during the year, supporting at least 80 souls; 18 oxen and 2 horses are used, consuming say 2,000 bushels corn. The water power in this section of country is by no means permanent, and the forge would not be capable of running more than six or eight months; 200 working days for the year would be a fair average, and the subjoined estimate is made for that length of time:

|                                            |   |   |   |   |   |                 |
|--------------------------------------------|---|---|---|---|---|-----------------|
| 140,000 bushels charcoal, at 3 cents       | - | - | - | - | - | \$4,200         |
| 300 tons pigs, at \$31 50                  | - | - | - | - | - | 4,450           |
| Labor on 200 tons bar iron                 | - | - | - | - | - | 4,600           |
| Salaries of manager and clerk              | - | - | - | - | - | 700             |
| Wear and tear of machinery, buildings, &c. | - | - | - | - | - | 600             |
| Transportation to market                   | - | - | - | - | - | 300             |
|                                            |   |   |   |   |   | <u>\$19,850</u> |
| 200 tons bar iron, at \$110                | - | - | - | - | - | <u>\$22,000</u> |

Leaving a profit of \$2,150, say 17 per cent., on capital employed. The market for the bar iron is at the towns on the Ohio river.

Lafayette Forge, in Scioto county, was established by the owners of the Scioto Furnace, in 1829, with a capital of \$10,000. This forge is situated on the Little Sciota river, within four miles of the furnace, and is used for the purpose of manufacturing the scrap and inferior iron of that establishment into blooms. The owners think they are doing well if they make or save \$1,000 per annum by this concern, though the subjoined estimate would show a greater profit. \$2,500 are invested in buildings, water power, land, &c., and \$7,500 in machinery, stock, &c. The forge runs for six months in the year, and 16 hands and 18 oxen are employed for that time. Some 50 persons obtain subsistence by labor of this establishment.

Estimate of the annual expenses and product of the Lafayette Forge:

|                                                     |   |   |   |   |   |         |
|-----------------------------------------------------|---|---|---|---|---|---------|
| 400 bushels charcoal to ton of pig, is 82,200, at 3 | - | - | - | - | - | \$3,466 |
| 312 tons pigs, at \$32                              | - | - | - | - | - | 9,984   |
| Labor and expenses                                  | - | - | - | - | - | 4,308   |
| Transportation                                      | - | - | - | - | - | 832     |

|                                                                      |   |   |   |   |   |                 |
|----------------------------------------------------------------------|---|---|---|---|---|-----------------|
|                                                                      |   |   |   |   |   | <u>\$17,588</u> |
| 8 tons blooms per week for 26 weeks, are 208 tons per annum, at \$93 | - | - | - | - | - | <u>\$19,344</u> |

Leaving an annual profit of \$1,762, or 17½ per cent., on a capital invested of \$10,000.

## DOCUMENT 17.—No. 2—Continued.

*Remarks.*—From the two preceding estimates, an inference might be drawn that the business of a forge yields a fair profit; but from such general information as has been obtained, the business cannot be considered profitable in this section of the Union. A forge unconnected with a furnace would scarcely yield a maintenance. The calculation of the Ohio Brush Creek Forge (on the preceding page) is predicated on an annual-product of 200 tons of bar iron. The forge has never made this quantity of metal, owing to the many incidental circumstances which occur in almost every establishment, but particularly in establishments of this nature, in the western country. The workmen who understand this kind of business are, as yet, by no means plenty; those who are here are dissipated, leave at a moment's notice, and are difficult to be replaced. The labor is very severe, and, when Saturday arrives, are almost exhausted, requiring at least two days in the week to recruit. Twelve tons of blooms per week for six weeks together, would be considered excellent work on the Juniata, where water power is permanent. The streams in this section, dependant on rains for supply, yield no permanent water power; and there is scarcely a forge in this section making 200 tons blooms, so that 200 tons of bar iron would be too great an annual product. There are two other forges in the neighborhood, one of which has not been heard from, and the other is known not to have made an hundred tons blooms, though in operation for nearly a year. A steam forge for the manufacture of blooms is about going into operation in Kentucky, on the Ohio river, in connexion with a rolling mill at Cincinnati. Rolling mills are now generally used for making bar iron, and forges for that purpose will be abandoned, or go into the manufacture of blooms for the rolling mills.

*Furnaces in the Ore Region of the French Grant.*

Pine Grove Furnace, in Lawrence county, was established in 1828, by three individuals, with a capital of \$18,000; steam power; 3,000 acres of land, worth \$2 per acre, are attached to the furnace, amounting to \$6,000; \$5,000 are invested in buildings, the residue, \$7,000, at the time of commencement, invested in ore, coal, goods, &c.; 100 hands are employed throughout the year; and there are on the place 30 families, averaging five persons each, who are entirely supported by this establishment, besides many others whose subsistence, in a great measure, depends on the labor of the furnace; 70 oxen are employed by the concern, consuming 12,000 bushels corn per annum. The ore used by Messrs. Ellison & Hamilton (the proprietors of the establishment) is the rock or calcareous ore, with a slight admixture of clay or argillaceous, and requiring about three tons of ore to one of iron. The rock ore is found in veins varying from four to five feet in thickness. The furnace is kept in blast nine months in the year, and, during that time, worked night and day, without cessation: the other three months of the year are occupied in repairs and accumulating stocks of ore, coal, &c.

|                                      |   |   |   |   |   |                 |
|--------------------------------------|---|---|---|---|---|-----------------|
| 3,000 tons ore, at \$1 50            | - | - | - | - | - | \$4,500         |
| 280,800 bushels charcoal, at 3 cents | - | - | - | - | - | 8,424           |
| Labor and expenses amounting to      | - | - | - | - | - | 17,251          |
|                                      |   |   |   |   |   | <u>\$30,175</u> |
| 475 tons pigs, at \$28               | - | - | - | - | - | \$13,300        |
| 450 tons castings, at \$60           | - | - | - | - | - | 27,000          |
| 75 tons scrap, at \$25               | - | - | - | - | - | 1,875           |
|                                      |   |   |   |   |   | <u>\$42,175</u> |

1,000 tons iron are made per annum, at a profit of \$12,000.

The above calculation is based on the business of the last year. Since the establishment of the furnace (four years) no dividends have been made; and the actual capital required and employed in the above estimate amounts to \$45,000. The above is substantially a correct calculation, and the actual profit may be estimated at 25 per cent. per annum, on a capital of from \$40,000 to \$50,000.

Union Furnace, in Lawrence county, Ohio, was established in 1826, (the first in this section of country,) with a capital of \$20,000. No dividends were made since the establishment of the concern, and the actual cost to the present owners is \$40,000. The works are propelled by steam power; about 3,300 acres of land are attached to the concern, (some of which were Congress and some in the French Grant proper) costing \$1 25 per acre, amounting to \$4,150; \$8,000 are invested in buildings, &c. the rest is floating capital, invested in ore, coal, iron, &c. Below is subjoined a calculation based on the business of the last year, yielding on original investment say 20 per cent.; the average profit, however, from the commencement, in 1826, to the present time, 1832, has been about 10 per cent. on the whole capital invested. The ores used at the furnace are the same as those of the preceding, (the Pine Grove) the argillaceous and the calcareous, which are dispersed in strata of from 6 to 10 inches. There are several strata of bituminous coal running all through this region, of which the upper stratum is the largest, say from 2 to 4 feet in thickness.

## DOCUMENT 17.—No. 2—Continued.

|                                                 |   |   |   |                 |
|-------------------------------------------------|---|---|---|-----------------|
| 5,000 tons of ore are used per annum, at \$1 25 | - | - | - | \$6,250         |
| 325,000 bushels charcoal, at 3 cents            | - | - | - | 9,750           |
| Expenses and labor in manufacture               | - | - | - | 15,153          |
|                                                 |   |   |   | <u>\$31,153</u> |
| 500 tons pig, at \$30                           | - | - | - | \$15,000        |
| 300 tons castings, at \$55                      | - | - | - | 16,500          |
| 200 tons scraps, at \$20                        | - | - | - | 4,000           |
|                                                 |   |   |   | <u>\$35,500</u> |

1,000 tons of metal, yielding a profit of \$4,347, say 10 per cent. on the entire capital.

The above calculation yields a less profit than furnaces generally do; but it would appear that the ore is poor in quality, requiring 5,000 tons to produce the same amount of metal as other furnaces, taking but 3,000; 200 tons of scraps is also a greater allowance than ought to be made, as the iron is smelted into pig or castings of much greater value; 49 yokes of oxen are employed, consuming some 15,000 bushels corn; 100 hands have permanent employment; and 25 wood choppers, some 4 or 6 months in the year; 100 families, averaging three persons, subsist entirely on the labor of this establishment.

Scioto Furnace, in Scioto county, Ohio, was established in 1829, by three persons, with a capital of \$30,000; 2,300 acres of land are attached to the concern, costing about \$3,500; \$10,000 are invested in buildings; \$4,500 in steam engine, machinery, &c., and \$11,000 in active capital; 86 hands find permanent employment throughout the year, on whose labor at least 350 persons depend for subsistence; 54 oxen and 3 horses are used, consuming some eight or ten thousand bushels of corn. The ores used are the kidney and clay, of which the kidney is the richest; three tons are required to make one ton of iron. This furnace runs about 9 months, and the estimate below is made for 270 days:

|                                               |   |   |   |                 |
|-----------------------------------------------|---|---|---|-----------------|
| 13 tons ore per diem=3,510 tons, at \$1 37½   | - | - | - | \$4,826         |
| 900 bushels coal per diem=243,000, at 3 cents | - | - | - | 7,290           |
| Labor and expenses of various kinds           | - | - | - | 16,460          |
|                                               |   |   |   | <u>\$28,576</u> |
| 100 tons castings, at \$60                    | - | - | - | \$6,000         |
| 980 tons pigs, at \$33                        | - | - | - | 32,340          |
|                                               |   |   |   | <u>\$38,340</u> |

1,080 tons metal made per annum, at a profit of \$9,764, say \$10,000, (as the labor of smelting in the item of expenses is overrated,) being a clear profit of 33½ per cent. on the original investment of \$30,000; without, however, taking into consideration that this, as well as all other seats for furnaces, decreases at least ten per cent. in value per annum, by the exhaustion of ore, timber, &c.; the country being barren, the lands, after being deprived of the timber, are valueless, and allowed to run waste. It would appear that the iron of this establishment is held in greater estimation than that of any other in this section, as it sells from \$4 to \$6 higher than that of the neighboring furnaces. This, also, is the only furnace which uses the kidney ore; it being more abundant here, and forming a large portion of the ores smelted, may account for the superior quality of the iron. It (the kidney ore) is always the upper stratum, being found in the tops of the hills, with but a slight covering of earth.

The Ohio Iron Company, in Scioto county, established two furnaces, one called the Franklin, in 1837; and one the Franklin Junior, in 1829. The company was incorporated in 1828, with a capital of \$100,000, 60,000 of which is the amount actually invested, and on which the business yields a profit of 15 per cent.; 2,000 tons of iron are made per annum, at from \$30 to \$60 per ton; 6,000 tons of ore, at \$1 25 per ton, and 550,000 bushels coal, at 3½ cents, with 500 tons limestone, at \$1 50 per ton, and 20,000 bushels of coal, (bituminous) at 6 cents per bushel, are annually consumed; from 200 to 300 hands are constantly employed; the wages of the laborers from \$8 to \$10 per month, and the mechanics from \$1 to \$1 50 per day; 70 or 80 yokes of oxen are employed, principally during the summer. A portion of the iron is sold at the furnace, but the principal part is sent to the towns on the Ohio river; some has been sold in New York, and a small lot, by order, has been shipped to England, presumed as an experiment, the result of which is not known. The foreign article does not enter into competition at the markets on the Ohio river, owing to the necessary expense that would be incurred in freighting it up the river; but it does at New York, which competition the company are enabled to sustain by the present rate of duty. Occasional sales are made for cash, but generally on a credit of from three to six months. The cost of manufacturing has somewhat increased since the commencement of the establishment, owing to a greater demand for labor, caused by the increase of similar establishments in the vicinity. The advance is not great, however, and as the price of iron has not varied materially, the profits continue much the same. The com-

pany do not think that capital invested in iron works yields a greater profit than capital otherwise judiciously invested, and managed with equal skill. The establishment is supplied with provisions from the surrounding country, and with, generally, low priced clothing, manufactured in the eastern section of the United States. The goods are purchased principally in New York, in payment of which bills are drawn on factors to whom iron has been shipped for that purpose, it being a convenient method of remitting and yielding a fair profit on the shipment. If the duties were reduced to 12½ per cent., the company would abandon the business; their capital they suppose would cease to exist. The lands being unfit for culture, and the works being unfit for any other purpose than the manufacture of iron, would be valueless were they compelled to abandon them.

*Remarks.*—In the foregoing pages, estimates have been given of the annual profits and products of five furnaces now in operation in that section of country commencing near the Scioto river, embracing Scioto and Lawrence counties, and bordering on the Ohio. In addition to which, four other new furnaces are, or are about being commenced, in different stages of progress; making in all nine furnaces which will be in operation in the spring of 1833, and producing about 1,000 tons of iron each, manufactured at the furnace into pigs and castings.

The value of castings for some years past has been \$60 per ton; the price of pigs has varied from \$25 to \$32; at present they are in brisk demand at \$30. Supposing that these furnaces made pig metal alone, valued at \$30 per ton, their united product would be 9000 tons, worth \$270,000 per annum, employing from 900 to 1,000 hands, supporting, in a country otherwise barren, a population of 3,000 persons, and consuming about 100,000 bushels corn in food for oxen and horses. The capital invested or employed might be safely estimated at \$300,000, yielding an average interest (judging from the estimates) of 20 per cent. per annum. The ores (of several kinds) appear abundant and almost inexhaustible, and bituminous coal abounds, being used at every furnace for the steam engines, which is the only power used for the production of blast. The furnaces are in blast night and day for nine months in the year, the other three months being required for repairs, renewal of stock, &c. The wages of the laborers are somewhat higher than are given for other purposes, such as agriculture, canals, &c. As regards pig iron, it would appear to be beyond foreign competition, but as soon as manufactured would be subject to, and controlled by, its influence, were it not protected by a duty. The impression of the iron masters generally is, that a reduction of duties would cause ruin to themselves and to their business. In reply to the question proposed by the Secretary—"In what would you employ your capital were you to abandon your business in consequence of a reduction of duties?"—a highly intelligent individual remarked: "That, if any thing were saved from his property, he would proceed south, purchase slaves, and commence the planting of cotton, that yielding a greater revenue for the capital invested than any other business, that of sugar not excepted."

The Colerain Cotton Mill Company was incorporated in 1823, with a capital of \$20,000. The mill is propelled both by water and steam power, and manufactures cotton yarn, wick yarn, and batting; 2,000 lbs. cotton are consumed per week, costing at the factory 10½ cents per lb.; 60,000 lbs. cotton yarn, at 22 cents, and 2,500 lbs. batting, at 15 cents per lb., have been made the present year; 5 men, at from \$4 to \$10 per week, and 30 women and children, at \$1 to \$1 75, are employed for 12 hours a day the year round: \$80 is the amount paid in wages per week. The profits of the company have been about 11 per cent. since the commencement, without calculating the depreciation of buildings, machinery, &c. Profits have latterly decreased, in consequence of heavy importations from the east, and competition in the western States. No money has been borrowed by the company, except occasional discounts at the Bank of the United States. Four horses are employed in transporting the yarn and cotton to and from Cincinnati, from whence the mill is distant 18 miles. The yarn is all sold in Cincinnati for cash, and an average credit of four months, but is consumed in Illinois, Missouri, and States on the river. The prices of yarn have varied in nine years from 45 to 20 cents. A dividend of 20 per cent. was paid; the rest of the profits accruing has been retained as capital. 100 persons are supported in and about the establishment. The neighboring families have made about \$4,000 worth of linsey, &c., which was dressed and finished at a fulling mill on the same property. The usual rate at which money is let among the farmers of this section is from 10 to 12 per cent.

The Woodbourne Cotton Factory was established by individuals in 1820, and proved a losing business until the present year, when it passed into the hands of the present occupant. About \$5,000 are invested in stock, machinery, buildings, &c. In consequence of improved machinery, the cost of manufacturing has decreased, while the profits have increased on account of the present rise in the price of yarns. 25,000 lbs. of yarn, No. 7, are made per annum, worth about \$5,750, which is all sold at the factory, and consumed in the county of Montgo-

## DOCUMENT 17.—No. 2—Continued.

mery, in which the mill is situated. One man at \$6 per week, and ten girls at \$1.25, are employed 12 hours a day throughout the year; the yarns are sold for cash and a credit of ninety days. The mill is driven by water power.

The Miami Cotton Mill Company was incorporated in 1830, with a capital of \$20,000, one-fourth of which is borrowed. The mill is situated in Dayton, Montgomery county, on the Slate Basin, from which it draws its water power; 4 men at \$1 per day, and 16 women and children at 22 cents, are employed 12 hours a day the year round; 60,000 lbs. raw cotton are annually manufactured into yarns, worth \$14,000, half of which is sold at the factory, and the remainder sent by the canal to Cincinnati, a distance of 65 miles. The yarns are sold for cash or a credit of four months, and are generally consumed in the manufacture of household goods. The yarn is coarse in quality, averaging No. 8, at an ordinary price of 22 cents. Half of the cost of yarn is raw material, one-fourth in labor, and one-fourth in profits. No dividends have been made, and the profits are invested in new machinery. The mill is not yet completed; in a short time double the quantity of machinery will be in operation, requiring double the amount of cotton, hands, &c., and of course producing double the amount of yarns. Attached to the cotton mill is a machine shop capable of making \$20,000 worth of machinery per annum. Within eight months, \$8,000 worth has been made, part of which is for Spanish America; one-fourth the cost of machinery is in material, such as wood, iron, &c., one-half in wages, and one-fourth in profit. About \$7,000\* worth of agricultural productions are consumed among the families dependant on the factory for support.

## PAPER MANUFACTORIES.

There are eight paper mills in the Miami country: three on the waters of the Big Miami, three on the Little Miami, two in Cincinnati, worked by steam power, cost 60,000, employing a capital in stock of \$30,000; manufacturing annually \$120,000 worth of writing, printing, and wrapping paper, which is principally used in Cincinnati and vicinity in book and news printing. The price of paper has been uniform since 1820; rags have varied little in the same time; wages to hands have advanced say 25 per cent.; the profits have been nearly the same, owing to improved machinery and knowledge in the business, say 20 per cent. on the capital employed. The number of hands employed, say 160, one half females; wages to females \$1.25 per week, to men \$6.50. No foreign paper in our market for sale.

## DOCUMENT 17.—No. 3.

## CITY STATEMENT.

*Answers to the Secretary's interrogatories in their order, by the Cincinnati Type Foundry.*

1. Ohio and Hamilton county.
2. Printing types and press, steam engine screws, steam power types, made by hand.
3. 1820, joint stock.
4. Capital 40,000.
5. 30 tons lead, 10 tons antimony, half ton tin.
6. 20 per cent. on borrowed capital and 27 on real.
7. Domestic competition cause decrease of profit.
8. Thirty-five.
11. No type imported.
12. 40 men and 15 girls; average wages of men \$1.50 per day, and girls and boys \$2 per week.
13. 10 hours a day year round.
14. Same.
15. None.
16. All disposed of in Mississippi valley.
17. Do not.
18. Answer as 16.
19. None from this establishment. Formerly to South America.
20. Both cash and credit of 6 months; old type received in barter.
21. Same.

\*This is evidently an error, but the answer being so given to our agent, I have retained it.  
M. N.

DOCUMENT 17.—No. 3—Continued.

22. Prices are found in Printers' Specimens; same through the United States.
24. None is necessary, as none are imported.
25. Rate of profit in No. 6; no dividend, whole amount of income converted into fixed capital.
27. 60 hands and families are fed entirely, and clothed principally, from the productions of the country.
28. The only foundry in the State.
29. Could not continue to manufacture at reduced prices, and would abandon the business.
30. A hard question.
31. Yes.
33. 40,000; borrowed 10,000.
37. The entire.

Morgan & Sanxay, bookbinders and printers, employ a capital of 15,000; they have fifty hands, twenty of which are women: the wages of the men are 8 dollars weekly, of the women 3 dollars; there are also three boys, who earn each two dollars per week. All the materials employed, excepting leather, are domestic, and a share of the leather also is such.

Henry B. Funk, tanner and currier, employs a capital of \$20,000, and the labor of 10 men, at the average wages of twenty-two dollars per month; his raw materials principally domestic; value of articles manufactured per annum \$18,000.

J. A. James, stereotype foundry, employs twelve hands, principally men, whose wages average eight dollars per week, the boys earn two dollars weekly. The value per year of his manufactured articles is 5,000 dollars. His market is at home.

J. M. Rowan makes blank and playing cards and press papers. There are twenty hands, a large proportion of which are girls and boys; the wages of the men are \$9, of the boys and girls \$1 50 per week: materials domestic; the only establishment in the whole west or south of the United States. He also makes fancy colored printing ink. Value of his manufactured articles \$24,000 per year.

We are, Carneal & Co., planing machine for boards, stone, &c., are just commencing, and calculate to employ four machines and 12 men; these last at an expense of 6 dollars per week. They expect to turn out \$22,000 worth of manufactured articles during the present year. Their machines quarter joint plough and grove boards, and dress out scantling and stone for building, and dispense in these things entirely with manual labor.

John Baker & Co., sash makers, employ four men and two boys; make \$5,000 worth of sash, principally for city use.

John Richards, steam cooper establishment, employs fifty men and four boys; shaves and joints his staves by machinery, and can also make the heads and shave the hoops by the same process; requires as good workmen in this establishment as in shops where manual labor alone is employed; expense of the power \$20 per month, and requires four hands and an engineer to attend it: his weekly expenses exceed 700 dollars. This is the largest establishment of the kind in the United States. He makes annually, with the capacity of increasing the amount,

|                                        |                                     |
|----------------------------------------|-------------------------------------|
| 1,600 half barrels, at - - - 62½ cents | 15,000 lard kegs, at - - - 40 cents |
| 34,000 pork do - - - 80                | 4,000 hogsheads, at - - - 1 25      |
| 2,000 beer do - - - 100                | 1,000 tight hhds. at - - - 2 75     |

and at least 2,000 dollars miscellaneous work.

William Stephenson, tin-plate and sheet iron worker; capital \$7,000; employs three men and four boys; men's wages \$7 per week, boys \$4 per week; materials principally foreign.

Chs. Libeau & Co., make fringe and coach lace; employ 3 men at \$1 25 per day, 2 boys at 50 cents, and 2 girls at 37½ cents per day: all materials, except silk, domestic manufacture, in value \$12,000; they do all their own dying.

A. Reuss, piano forte and pedal harp manufacturer. Pianos of every kind, harps from one to seven pedals; cabinet pianos as high as \$700, usual price \$350 to \$500. Pianos are made of better quality in the United States than in Europe. From the large share in value, which arises from the amount of labor bestowed in making them, a reduction in the duty would be fatal to this branch of manufacture, which is already struggling for existence. He made four pianos the last year, value \$2,000; does all his own work; employs mahogany veneers, and bird's-eye and curled maple plank.

J. & J. Mahard, exporters of produce. They have shipped during the last business year 1,700 kegs lard, 150 kegs butter, 4,434 covered hams, 37,000 lbs. pork in bulk, 535 hhds. hams and bacon, 1,900 bbls. pork, 13,000 bbls. flour.

Stephen Burrows, tobacconist, employs 5 men and 5 boys, the men at \$7 50 and the boys \$1 50 per week; materials all domestic. Turns out manufactured articles of tobacco to the value of \$7,000 per annum.

J. J. Haskins & Co., hat factory, employ 6 men and 6 boys, the men at \$1 25 per day, the boys at 37½ cents wages; materials principally domestic, the value of which is about \$2,000 in a year's business. Their business is about 12½ per cent. on that of the city; their market the city of the Mississippi; value of hats, &c. manufactured \$8,000 per annum.

A. C. Brown, machine card factory, just established, and operates by steam power; employs 10 men, at average wages of \$1 25 per day, and 3 girls at \$3 per week; consumes \$3,600 worth of iron wire annually; foreign materials, wire, and domestic leather; makes not only cards usually to the value of \$8,600, but machines for cards to the amount of \$3,600, and will make a much greater amount when fully in operation. Its market is the valley of the Mississippi, and sales are made for cash and on credit of 90 days; works 11 hours per day all the year round. Bassett & Kendall, saddle-tree factory; make 100 saddle-trees per day, which sell as follows: sit head \$8 per dozen, fall back \$9 do., side \$12 do. These prices are 25 per cent. less than were obtained two years ago, although the raw materials have advanced within that period. This establishment is the largest in the United States; there are none south or west of New Orleans, N. J., besides this, but one at Wheeling, on a small scale; the factories in Trumbull and Edgeport are next in importance to this; they need no protection; steam power is employed; they use half a ton of iron per week—none but the best Juniata will answer; they make their own canvasses and wooden frames. There are in this factory 22 men, who earn from 8 to 16 dollars per week, 6 women, at 50 cents per day wages. It is supposed to be one of the most profitable factories in the State: its owners do not permit drinking nor swearing within its walls. E. B. Casey, tobacco factory, Covington, consumes 300 hhds. leaf tobacco annually; employs hands at \$5 per week, and 10 boys at \$1 50; turns out 1,500 kegs tobacco annually, valued at \$15,000; his trade is one-eighth of the tobacco trade in Boone and Campbell counties.

J. Bonté, rope walk; manufactures cordage by horse power; was established in 1833; capital, in machinery and buildings, is \$1,000; consumes 80 tons hemp annually, worth \$800; the profits of the business are decreasing, owing to rise in the raw material and domestic competition. He employs 8 men and 10 boys; the men earn about \$1 per day, and the boys \$1 50 per week; they work 12 hours in the day on average the year round; the market for his manufactures is at home. Cordage is not imported, although the material in part, Manila hemp, is, and, on the Atlantic coast, the Russia also. Manufactures 160,000 lbs. cordage, ranging 10 cts. per lb., \$16,000 in value. The Manila and Russia hemp injure the planter, but do not affect the manufacturers' interest unless indirectly.

Aspar Hopple & Son, tobacconists, manufactured by steam power within the last five years, but for twenty years previously, by horse. The business affords a profit of 20 per cent. on the amount made; makes 300 kegs tobacco and 60,000 lbs. snuff annually, value \$15,000, employs 10 men, who earn about \$7 per week; market in the valley of the Mississippi.

William Holyoke, coachmaker, employs 12 hands at an average of \$1 25 per day; manufactures stages, gigs, coaches, &c. to the value of \$9,000 per year.

Thomas McGregor, stone and marble yard; turns out work in value \$10,000 per annum; employs 12 hands, who earn \$1 50 per day.

J. McDonald, blacksmith, consumes 40 tons iron and 1 ton steel in the course of the year, worth \$4,000; employs 13 men and 7 boys; value of work produced \$11,000 per year; uses chiefly the English iron, which answers for railings and wagon tires, but is not as valuable as cast iron for general purposes.

Hiram Marks, cutler; works by steam power, employs 5 hands; value of work \$5,000 per annum; owing to the low price of labor abroad, and the large share of value which it forms in a manufactured article, a reduction of duty would operate very injuriously.

W. S. Chappell, tailor; employs 6 men and 8 women, at 8 and 3 dollars per week, respectively; makes clothes to the value of \$8,000 in the course of the year; materials principally foreign, and the work made generally for customers in this city.

Seeler & Co., scale-beam factory; makes 250 scale-beams per year; aggregate value \$3,000; employs 4 men.

J. Ryder, manufacturer of machine cards; uses, of foreign articles, wire to the amount of \$500, and of domestic, \$1,000 value of leather; employs 4 hands, and makes to the value, annually, of \$7,500.

Hills & Williams, plough and axe-makers; consume in their shops annually 50 tons iron, of the best quality, and none but Juniata will suit; also 6 tons steel; value of iron and steel \$300; turn out 10,800 axes per annum, 400 ploughs, and wagons, carts, and drays, to the

## DOCUMENT 17.—No. 3—Continued.

value of \$3,000; the axes sell for \$18,900, and the ploughs at \$3,900. The demand for axes is so great that we cannot supply to any great extent the wholesale demand. Of steel we use principally Naylor & Sanderson's cast steel.

CINCINNATI, OHIO, March 9, 1832.

Sir: In answer to the questions proposed in your circular addressed to the manufacturers of the United States, we make the following statement, adopting the order of your questions, so far as they have a bearing on the subject of the manufacture of white lead. In order to be brief, we give answers only in this place, and number the answers corresponding to the questions.

1. Ohio, Hamilton county. 2. White lead, by steam power. 3. 1831, joint stock. 4. Invested in ground and buildings, and in machinery, \$6,000. 5. \$30,000 annually for materials and wages. 6. Profits about 5 per cent. on capital since the commencement, after deducting interest at 6 per cent. 7. Owing to the advance of the price of pig lead, and the competition between manufacturers here and at Pittsburgh, the profits are very small. 8. Do not know, as that depends much upon management and other circumstances. 9. 5,000 kegs in 6 months, value \$2 85 per keg of 25 lbs. 10. Pig lead has sold, since June, 1831, at 5 to 6 cents per lb. 11. Little if any imported, none from foreign countries to the western States. 12. 4 men, at average wages of \$1 25 per day for each hand. 13. About 12 hours all the year. 14. Wages same in this county for similar labor; in other states and foreign countries we know not. 15. One horse. 16. In part at home and in part sent to the interior, and up and down the Ohio river, from one to three hundred miles. 17. No foreign in the market. 19. None exported. 20. Sold chiefly on a credit of four months. 21. Increased to the manufacturer the last year, owing to the advanced price of the pig lead, oil, and wages, at an average of 50 per cent. 22. Sold by the keg, ground in oil, at \$2 50 and \$2 85, at present is worth \$2 85. 23. The present duty excludes any competition in this article from foreign countries in this market, and the manufacture of the article is sufficient for consumption. 24. None in this article. 25. Joint stock company, but not having been in operation one year, no dividend has been made; the profits are about 10 per cent. annually on the stock invested. 26. About 50 per cent. for materials, and about 40 per cent. for labor wages. 27. What 4 men and 1 horse will eat and waste. 28. Do not know. 29. We would be under the necessity of abandoning our business, if only 12½ per cent. were charged on the importation of white lead, and a corresponding reduction of all imports. 30. At present could not say in what way we would employ our capital. 31. To pursue our business after a reduction to 12½ per cent. of all impost duties, would be a ruinous business, of course, as stated above; would be under the necessity of abandoning the business. 32. Foreign salt and iron are, in all the valley of the Mississippi, sold in competition with the domestic manufactured article, even at the present rate of duty; and if the duty was reduced to 12½ per cent. ad valorem on foreign iron, every furnace and forge in the western States would cease to operate. 33, 34, 35, 36, 37, 38. Household or individual manufacture has decreased in the western country since 1824, one-half, owing to the cheapness of domestic cotton goods, and labor being more profitably employed in other pursuits. 39, 40. Leave these questions, and others not answered, to those who have better statistics to answer.

Very respectfully,

McLENAN & Co.

Hon. LOUIS McLANE,

*Sec'y Treas'y of the U. States.*

ROPE-WALK.—ANSWERS TO QUERIES.

1. State of Kentucky, Campbell county, on the bank of the Ohio river, opposite Cincinnati, Ohio.
2. Rope-walk, manufacturer of cordage, man and horse power.
3. 1829. Rope-walk, individual property, stock furnished from Cincinnati.
4. \$3,000 in buildings and machinery.
5. \$15,000 per annum in materials and wages.
6. 25 per cent. on \$10,000, 20 per cent. on \$5,000.
7. Increase or decrease of, dependant on the price of hemp.
9. \$15,000 in cordage of all kinds.
10. 50 to 80 tons Kentucky and Ohio hemp, five tons Manila hemp.



11. None imported, save small quantities Manila cordage, manufactured in the cities.
12. Ten men and six boys.
13. Eight to nine hours per day, all the year.
14. One dollar per day.
15. Two horses.
16. Manufactured articles all sold by the merchants in Cincinnati.
17. Competition of no consideration.
18. Principally by steamboats, balance local country consumption.
19. None exported, except occasionally bale rope to New Orleans.
20. Cash and credit of 6 months.
21. Increased ten per cent., on the cost of Kentucky and Ohio hemp the last 12 months.
22. Nine to ten cents per pound.
23. Duties do not reach this article in this country.
25. 25 per cent for three years, 25 per cent. wages and labor.
26. 50 to 60 per cent. raw material.
28. Probably in the State of Ohio, about \$50,000.

## ADDITIONAL PAPERS.

### DOCUMENT 18.—MASSACHUSETTS.

#### MANUFACTURE OF TACKS, BRADS, AND SPRIGS, IN ABINGTON, MASS.

ABINGTON, May 30, 1832.

SIR: In compliance with your request, I send you a short statement of the circumstances which led to the adoption of a tariff on the importation of tacks, brads, and sprigs, and the effect it has had on the manufacture of those articles, and on commerce. This will show, as you observe in your request, "the whole bearing of a judicious tariff on an important manufacture, unconnected and distinct from other articles."

The making of tacks, by hand, commenced very early in this town, say sixty years since. The first attempt was, to cut up old hoops into points, by a very imperfect kind of shears, and take them up, one by one, and place them in a common vice, and screw up and unscrew for the purpose of heading each tack with a hammer. From this process they were called *cut tacks*. But the mode in making by hand was much improved by moveable dies, placed in an iron frame, in the shape of an ox bow; the two ends, in which were placed the dies, being brought together by a lever pressed by the foot. In the first process, a man might make 1,000 tacks per day, in the latter 8,000 per day. This was a great improvement; and the inventor, (Mr. Ezekiel Reed, then residing in this town, now of North Bridgewater, and who is a very aged man, over 80) was entitled to a patent. He made some attempts to conceal the operation, but it was so simple and so easily applied, that others soon got it, and it came into general use.

With machines, or "tack tools," as they were called, thus improved, from three to four hundred men and boys, were employed in making tacks in this town and vicinity from about the year 1800 to 1816. Previous to 1800, for about 30 years, the business was progressing from a very small beginning, to employ the number of hands as above.

In 1815 and '16, a machine was invented by Mr. Jesse Reed, then of Hanover, in the county of Plymouth, son of the above named Ezekiel Reed, to make tacks at one operation. Mr. Melvil Otis, of Bridgewater, claimed and received a considerable share in the invention. Soon afterwards the machines were much improved by the inventions of Messrs. Thomas Blanchard, of Springfield, and Samuel Rogers, of East Bridgewater. These inventors are still living, and are all natives of Massachusetts.

For the exclusive patent rights of these inventions, Elihu Hobart, esq. and the writer of this paid something over twenty thousand dollars; to which must be added for building of machines and fixtures to put them into operation by water, ten thousand dollars more; making thirty thousand dollars expended, in the first instance, to commence the business of making tacks. Large sums were added afterwards. The price of tacks was reduced over fifty per cent. immediately, and one man could make more tacks in a day on one of the patent machines than fifteen could by hand, even in the last improved mode by moveable dies: by hand 8 or 10,000 per day, on a machine from 100 to 150,000. One machine has turned out over 250,000 in a day.

But at this critical period of our affairs, for we had but just put our machines into full operation, and I had almost said of our country's affairs, as respected the manufacture of this article, we learned with astonishment that a large consignment of tacks had been received at Philadelphia from England, and some were sent to Boston. On inquiry, we found that a model of our patent tack machines had been taken from this country to England, and there, as we understood, patented, at least used, and the tacks sent here for sale. One or two individuals went to England from this country for that purpose. The effect of this was to stop the manufacture of the article here entirely, and ruin the proprietors of the patents; not so much on account of reducing the price, as for taking from them the home market.

Under these circumstances, we were led at once to look to our Government for relief and protection. In our petition to Congress we stated the above facts, with others; and I recollect of making a statement to the late Hon. Zebdial Sampson, then a member of Congress from this district, of the value of the importation of the British tacks received at Philadelphia, being an invoice of about six thousand dollars, paying a duty only as nails of, I think, four cents per lb., whilst they were sold by the thousand, and one pound of iron would make several thousands of the small sizes of tacks. It was calculated that one hogshhead of rum paid more on importa-

tion than the above invoice of tacks. It was asked in this statement, "Shall the British take our inventions and our market, without paying for them, to the ruin of our own citizens?" We referred to our models in the Patent Office, and stated "that the price of tacks was already reduced fifty per cent., and that machines could easily be multiplied, not only to supply the United States but all Europe."

The petition was referred to the Committee on Commerce, of which the Hon. Thomas Newton, of Virginia, was one, and who is now a member of Congress. Mr. Sampson appeared before them with our statement.

Mr. Newton, who, I think, was chairman, after hearing our statements, exclaimed, as Mr. Sampson informed the writer, "Here is a subject which Congress knew nothing about, until these young men of Massachusetts pointed it out; it requires immediate attention; they have made out their case; they don't ask enough." A bill was immediately reported, fixing the duty on importation of tacks at five cents per thousand, up to 16 ozs. to the thousand, after that at five cents per pound, and also included brads and sprigs. This act passed April the 20th, 1818, and went into operation on the 30th of the following June.

Now, what has been the result of this tariff? In the first place, I am very clear that the articles of tacks, brads, and sprigs, have been sold lower on an average for fifteen years past, than if the British had supplied us. Without the tariff of 1818, the business must have been given up in this country. A steady and extensive market was what was wanted; prices were so much reduced that it required large sales to support the establishments. Iron and labor was lower in England than in this country, and the English had nothing to pay for patents; and, having silenced competition here, they would have charged their own price: it would have been difficult to have revived the business; indeed it never could have succeeded without protection in its infancy.

The prices at which tacks, brads, and sprigs, have been sold for years, and are now sold, are extremely low, just above the price of the iron of which they are made. The profits on a single thousand are estimated by mills not cents. The prices are more than three-fourths less than when made by hand.

In reference to tacks, to which I more particularly confine my remarks, the invention of a machine to make them at one operation ranks among one of the greatest inventions of the country, and justly deserved protection. Tacks, brads, and sprigs, with sparables or shoe nails, are very extensively manufactured. A few years previous to the tariff of 1818, probably less than one hundred tons annually of these articles were made in the United States; now it is computed, and the calculation is below the reality, that two thousand tons of iron are annually consumed in the manufacture of those articles.

Tacks are variously and extensively used, as in the manufacture of hand cards, trunks, saddles, carriages, bellows, cigar and other boxes, brooms, brushes, sieves, and shoes, in fastening carpets, posting advertisements, clothing machine cards, &c.; in short every kind of trade and manufacture wants some, as well as every farmer, stockkeeper, and householder; every vessel that goes to sea takes more or less; about steamboats millions are used, and no doubt future cars and vehicles on railroads will consume millions. But for the tariff of 1818, we must have looked to a foreign nation for this so useful an article, now so cheaply furnished and so extensively used. Brads and sprigs are used for building and ornamental work; sparables or shoe nails, for shoes; and these articles are abundantly and cheaply supplied.

Tacks are applied to a great many uses unthought of until the invention of our machinery; the smallest sizes could not be made by hand, for we can make as low as one half ounce to the thousand. These very fine sizes, which are made of copper as well as of iron, are for water boxes and shoes; shoes require fifty millions of one and a half ounce tacks to the thousand annually, in this State alone, to fasten on the welt of the inner sole of a shoe, which is a recent application of tacks: so there are many other new applications of tacks to uses unknown until they were made by machinery.

By the amount of business done in our two establishments, some idea may be given of the amount of capital it would require to manufacture 2,000 tons of iron, annually, into tacks, brads, and sprigs. We manufacture about 300 tons of iron annually into these articles: we are not in company, but being pretty equally concerned in amount, the statement is made as of one concern. To manufacture this amount requires about \$35,000 to be invested in land, water privileges, buildings, fixtures, and machinery, with tools, wagons, and horses, to transport, exclusive of patent rights:

|                              |   |   |   |   |   |   |   |          |
|------------------------------|---|---|---|---|---|---|---|----------|
| Say for these                | - | - | - | - | - | - | - | \$35,000 |
| 300 tons of iron             | - | - | - | - | - | - | - | 30,000   |
| Rolling the same into plates | - | - | - | - | - | - | - | 9,000    |
| Transportation 25 miles      | - | - | - | - | - | - | - | 2,000    |

## DOCUMENT 18—Continued.

|                                                                      |                  |
|----------------------------------------------------------------------|------------------|
| To workmen for making 1,200,000 M. of tacks, or 1,200,000,000 in No. | 15,000           |
| Papering and boxing                                                  | 1,000            |
| 5,500 boxes                                                          | 1,000            |
| 200 reams of house sheathing paper                                   | 700              |
| Wharfage on 5,000 boxes shipped                                      | 100              |
| Freight                                                              | 750              |
| Iron, steel, files, band leather, oil, and twine                     | 750              |
| Agents to superintend                                                | 1,500            |
| Commissions on sales                                                 | 1,500            |
| Insurance                                                            | 500              |
| Coal, wood, and other items                                          | 1,500            |
|                                                                      | <u>\$100,300</u> |

Hands employed in the two concerns about one hundred.

By this statement, which is intended to be a general outline of our business, or, which is the same thing, of the capital necessary to be employed to manufacture 300 tons of iron into these articles, it would show a capital of \$666,000 invested and employed in the United States annually to manufacture 2,000 tons of iron into the same; but, as our manufacture of 300 tons, or the estimate above, may include more of the finer and more valuable kinds of this business, it would be safe to set down the whole business at \$600,000, and say \$200,000 to be invested in real estate, buildings, machinery, &c., and annually \$200,000 to go for iron and other raw materials, and \$200,000 for labor, including rolling, freight, &c.

This estimation shows an important item of manufacture in our country. Had this branch of business been lost, which is now so extensive and continually increasing, who or what interest would have been benefitted? Not commerce; for the importation of iron from the north of Europe, particularly Russia, employs more navigation than the manufactured articles would from England, and three-fourths of the iron used at present is from this source. After it is manufactured, the tacks, &c. are shipped to all parts of the United States, giving constant aid to internal commerce. This manufacture requires many other materials which is in aid both of commerce and agriculture, as steel, coal, files, iron, cast and wrought, oil, leather, boxes, nails, cotton yarn for twine, corn, flour, and other provisions, &c. &c.

In no country, perhaps, are the articles of tacks, brads, and sprigs, made cheaper than in the United States. The machines for making tacks, as now improved, work with great facility, and their invention does honor to the country. A single machine will turn out 365 tacks per minute, feed itself, turn the plate, cut and head them, all complete. With such machines, aided with American industry, the United States may yet supply the world with tacks; they will doubtless soon become an article of exportation; several shipments have already been made to advantage; others are now in contemplation. This result is owing to the tariff of 1818. It sustained this manufacture in its infancy; but for that protection it would have been lost to this country; and, instead of its present extended state, and the prospect of its sending large supplies out of the country, we ourselves might have been dependant on a foreign nation for tacks, brads, and shoe nails.

But these views are more interesting to the public at large than they are to the manufacturers. The community at the present time receive all the advantage in the cheapness of the articles; competition has always kept down prices below a fair profit. Many have suffered heavy losses, and there are no overgrown establishments. At this very moment many establishments are standing still, because prices are so low, and should the present tariff be taken off, or materially reduced, it would have the effect to raise the price, for many of those now engaged in the manufacture, in view of a foreign in addition to a domestic competition, would abandon the business.

In the two bills reported by the Secretary and by Mr. Adams, the tariff of 1818 is proposed to be continued on these articles. This is sufficient and satisfactory, and the above statement shows that it is judicious; and no doubt a history of many other manufactures would show an equal, if not a more interesting, view of their rise, progress, and present condition, and of the imperious necessity of their protection, not only as it respects the manufacturer, but the whole community.

Your's respectfully,

BENJ. HOBART.

WILLARD PHILLIPS, Esq.

Commissioner, &c.

## DOCUMENT 19.—RHODE ISLAND.

## MANUFACTURES OF COTTON GOODS IN PROVIDENCE.

PROVIDENCE, May 25, 1832.

SIR: Availing myself of the intimation contained in your circular of February 7, 1832, I beg leave, respectfully, to submit my views of the cotton tariff reported by you to the House of Representatives, pursuant to the resolutions of that House of January 19, 1832, as explained in your "comparative statement," communicated on the 3d May, 1832.

By the phraseology of the *proviso* for valuation, the minimum principle of the existing tariff is totally abandoned, and there is substituted for it a principle entirely new to our import system, in an average valuation, which values "all" cotton cloths imported at 30 or 35 cents the square yard, and charges them with duty accordingly. The policy of such a change of principle, after a successful application of the minimum system for sixteen years, may well be doubted, if the permanent establishment of the cotton manufacture is an object of any considerable importance to the Government. That manufacture is indebted to the system of minimums for all its success, from the peace of 1815 to the present time; and its future stability and power of expansion cannot be so well secured by any other mode of assessing the duties on rival manufactures imported.

An average valuation is equally unsafe, whether for revenue or protection; for it necessarily supposes a permanent and uniform relation of currency to commodities, of gold and silver and negotiable paper, which are the measures of value, to objects of exchange and consumption, which are value itself. I need not say that no such perfect uniformity has ever existed or can exist. Money prices were, in 1815, about double what they are at present; that is to say, one dollar would then buy no more than fifty cents will now buy. Supposing the currency of the world to have now reached its highest appreciation, and that, for seventeen years to come, goods are to rise and money to fall, until money and goods shall have the same relation to each other which they had seventeen years ago, the insecurity of an average fixed valuation of any commodity for duties, either as revenue or protection, must be apparent.

At the maximum price of goods, and in proportion as they advance to that maximum, will the ad valorem duty be diminished. Cotton cloths, which are now 30 cents per yard, and, under the bill proposed, would now pay 25 per cent. duty, would rise to 60 cents in current value, and would pay only 12½ per cent. duty, equivalent to 3 3-4 cents of our present currency, and yard square of plain cloth. The system of minimums is not liable to this objection, but secures a just assessment of duties, whether for protection or revenue, in all supposable relations of currency to merchandise. Whether the system of average valuation be adopted or that of minimum valuation retained, the difference in valuation between bleached and colored cloths, and cloths not bleached or colored, is not so great as their relative cost would seem to require, giving only a difference in duty of 1½ cents the square yard, or less than 94-100ths of a cent the running yard—an amount not equal to 25 per cent. on the additional labor and materials expended. With an ad valorem duty of 25 per cent., and a valuation of 30 cents on brown goods, a valuation of 40 cents on bleached and colored goods would place the latter more nearly on an equality with the former than would a valuation of 35 cents.

There is not, I presume, any particular reason, aside from habit, for the discrimination in favor of Nankins. They are not made of American cotton, and have no other recommendation to our favor. The 20 per cent. ad valorem on these goods might, therefore, be expunged without injustice, leaving them to pay duty like other cotton cloths. But the most important feature of this bill as regards cotton goods, one which, greatly beyond the average valuation on cloths, threatens the entire prostration of the spinning of cotton in this country, remains to be examined. The security of spinning involves not only the value of all the lands, fixtures, and machinery employed; not merely the comfortable living of the people engaged, but the domestic market for a large proportion, now one-fifth, of the whole cotton crop of the southern States. The bill proposes an ad valorem duty of 25 per cent. on cotton twist, thread, and yarn, without any valuation, whether average or minimum. By existing laws, these goods imported are valued, uncolored, at not less than sixty, and colored at not less than seventy-five cents a pound, and subjected to a duty of 25 per cent. ad valorem. These duties were imposed by the act of 1816, to which I beg leave to refer. The history and intention of that act as it regarded cottons, will be useful to us on the present occasion. The commercial restrictions which preceded the war with Great Britain, and the war itself, had stimulated the production, in British India, of the inferior cottons of that country, and occasioned immense exportations of those cottons to China and England. The restoration of intercourse between this country and Great Britain brought the yarns and twist manufactured in England from these cottons in direct competition in our markets with goods of similar descriptions, made here, of the very best Ameri-

## DOCUMENT 19.—Continued.

can stock. The difference in quality and wear could not be appreciated, and made no difference in prices, so that what was *apparently* cheaper was preferred. This explains the concurrence of South Carolina, and of members from other southern States, in the cotton tariff of 1816. Those States were threatened with the loss of the domestic market for their grand staple, then (perhaps a little over) estimated at 90,000 bales. It was then thought enough to secure the coarse cloth by a duty of  $6\frac{1}{2}$  cents the square yard; but that, to be effectual, the minimum principle should be extended to yarns, and they were accordingly subjected to the valuations and duties abovementioned. Had the latter been omitted, the former would have been entirely fruitless, for the yarns would have been imported and wove into cloth here. In consequence of this protection on such yarns, and of similar or equivalent tariff restrictions imposed in other countries, the English were obliged to discard the India cottons, and to make their goods from stock of better quality; and the annual import of those cottons into England is now perhaps less than 40,000 bales. But should our Government, abandoning the principles of 1816, adopt the proposed tariff, this business of making *cheap yarns* for the American market, would be revived in England. These yarns could be imported on the beams, and woven into cloth in this country. That cloth, vastly inferior in value to the cloth made of homespun yards from American stock, could be sold at a lower price for an equal surface. The inferiority of the fabric would escape detection, and purchasers, tempted by the apparent cheapness of the goods, would prefer them to the more substantial and durable cloths made of American yarns. The difference in the cost of stock between American and English yarn would pay the duties and charges, and the weaver would thus obtain, for an article of no more than half the intrinsic value, a price nearly equal to that of the best American stock and fabric. The amount of capital and labor which would be displaced in this country by a prostration of the cotton spinning, would be about four-fifths of the capital and labor now employed. It is calculated that the hands and machinery engaged in spinning bear that relation to all the hands and machines engaged in the manufacture from raw stock to finished cloth.

The proposed average valuation and duty of  $7\frac{1}{2}$  cents the square yard, would therefore be deceptive and illusory, under an ad valorem duty of 25 per cent. on yarns, without a minimum valuation; by which, in some cases, the yarn for a yard of cloth could be imported at a duty of only one cent. And the practical effect of the tariff on cottons, taken as a whole, would be a virtual reduction of the duty on cloths of an average value of 30 cents the square yard to  $3\frac{1}{2}$  per centum ad valorem.

These, sir, are some of the reasons, founded on a long experience in the cotton business, which induce me to apprehend the most ruinous consequences from the adoption of the proposed bill, especially as respects the duty on yarns. But I am persuaded that your own, and the patriotism of Congress, would revolt at consequences so disastrous, when clearly and plainly shown as the probable results of any measure proposed. I know that the prosperity of the cotton manufacture is considered important to the whole country, and an object to be secured if possible. I have endeavored to place the subject before you in its proper lights; and I now leave it with a full reliance on the integrity and national pride of those who sit in the high places of the land, and rule the destinies of a numerous and growing community.

Very respectfully, your obedient servant,

SAMUEL SLATER.

To the Hon. LOUIS McLANE,  
*Secretary U.S. Treasury.*

## DOCUMENT 20.—NEW JERSEY.

REVIEW OF THE TARIFF POLICY, BY ANDREW GRAY, OF NEWARK.

NEWARK, April 28, 1832.

SIR: Having been invited in your late circular to accompany my report of the facts and information that should be obtained in the State of Delaware, on various matters connected with the manufactures of the United States, with such suggestions, in a separate communication, as

I might think useful in the adjustment of the tariff on right principles, I have hastily drawn the following remarks, and respectfully submit them.

2. It is to be deeply regretted, sir, that there is so wide a difference between the representatives in the National Legislature, and between their constituents also, in regard to the principles on which the adjustment ought to be predicated, and the best mode of carrying those principles into effect. They are, in these respects, the antipodes of each other. But it should be remembered that, in this division of sentiment, it is seven States of the republic, and their representatives, who are arrayed against the remaining seventeen States, and the representation chosen by them. It should be recollected, also, that the united white population of these seven States amounts only to 2,520,089, who will, as provided in the federal constitution, at the proposed ratio of one representative for every 47,700, should it be established, be allowed twenty members in the House of Representatives on account of their colored population, more than they would be otherwise entitled to—an advantage which goes to increase very much their weight and influence in legislating on the national concerns. From this number 8 members, to whom, for the same reason, the seventeen States are entitled, being deducted, the number will be reduced to 12 representatives. The number of whites in the last named States, after deducting the colored population, is 7,903,628: less than one-fourth part of the white population of the United States, is, then, to be opposed in the approaching conflict respecting the modification of the tariff, to something more than three-fourths; that is to say, 2,520,089 to 7,903,628. And the 2,520,089 threaten to separate themselves from the 7,903,628, and to dissolve the Union, should not the latter succumb to the policy and views alleged by the former to be most in accordance with the provisions of the constitution, and most conducive to the general welfare.

3. It will not be impertinent to remark here, that, were the federal constitution to be framed at this day, there is the best reason to believe that the concession which gives to the slaveholding States the advantage just stated, would not be made. When it is considered that a major part of the inhabitants of some of the States is colored people in a state of bondage, and that in the rest they approach nearly to an equality with the whites, the concession cannot be regarded, in a republic like this, as unequal and unreasonable. Slaves being denied civil and political rights, and regarded as property, as well might a representation have been asked by the southerners for their flocks and their herds. Nevertheless, no disposition has been manifested by the non-slaveholding States to amend the constitution, by ridding it of the exceptionable feature; and I have adverted to it only to place in the stronger point of view the reprehensible anti-republican course which the minority, with this advantage on their side, threaten to pursue.

4. The duties laid on imports have not hitherto been too high to provide a revenue proportioned to the exigencies of the Government—an amount of money sufficient to pay off the annual appropriation for the extinguishment of the principal and interest of the public debt, and to meet all other demands on the national treasury. And it may be observed, that it is not the amount of revenue which the duties have brought into the Treasury that has been complained of at the south; but those imposed on cotton and woollen, on hempen and flaxen fabrics, on sugar and iron, have been particularly objected to. These have excited the discontent of the southerners; these produced their clamor against the tariff, and the abuse inflicted by them is unsparingly on the majority: with what reason is a fit subject for present inquiry.

5. The duties referred to, and all others imposed with a similar view, partake of a double character—fiscal and protective. They were designed for revenue and for the protection of American industry; and it is their protective character which has rendered them unpopular at the south. In this character they were intended to give encouragement to domestic manufactures by gradually diminishing the importation of the like productions of foreign countries, and finally excluding them from the market of the United States. They were intended also, through the encouragement afforded to domestic manufactures, to advance the interests of agriculture and the mechanic arts, as well as to promote the commercial intercourse of the States, by means of the coasting and inland trade. It was thought, too, that, in the benefits to be extended to agriculture, the planters of cotton at the south would not fail to share, from the additional demand that would be created for that staple. In this sentiment, unfortunately, they have not concurred, the cotton planters in Louisiana excepted. What was intended to be, and what has already, indeed, been productive of great advantage to the free people in the eastern, middle, and western States, by diversifying their employments, and calling into action their capacities, by stimulating their industry and whetting their ingenuity, and consequently contributing to the wealth and prosperity of these States, is, in the opinion of the planters in the seven discontented States, destruction to the products of the labor of their slaves, and death to all their golden prospects. At this conclusion they have arrived by the following process of reasoning:

6. In a tabular statement of the exports of the United States, cotton, rice, and tobacco, constitute the larger portion of them, being in value about \$36,000,000. With these the imports, consisting of cotton and woollen fabrics, iron, cutlery, hardware, and various other articles of merchandise, are purchased in Great Britain and other European countries, but principally in Great Britain. The imports from these countries being proportionably large when compared to those derived from other nations, and yielding a larger amount of revenue, the southerners, because they have been received in exchange for their staples by the shippers and merchants, (who have paid the planters for them in money or merchandise) claim to themselves the credit not only of the commerce produced by these exchanges, but the payment of the greater part of the duties collected from it, although, as consumers, they and their negroes do not make use of a fourth part of the imports, and of course cannot contribute in a greater ratio to the revenue than they consume the goods on which it is collected. The truth of what is here asserted is susceptible of the clearest demonstration.

7. The whole population of Virginia, the two Carolinas, Georgia, Alabama, Mississippi, and Tennessee, the States in which alone there is a decided hostility to the protective policy, amounts, by the last census, to 4,169,538 souls, of whom 1,649,449 are negroes and mulatto slaves, except 83,659, who are free. That of the other States is 8,541,681, of which number 638,053 are colored people, 228,414 of whom are free, and the residue, 409,639, in a state of slavery.

8. There are few cities, towns, and villages, and no manufacturing districts, in the seven dissatisfied States. These are to be found principally in the States situated to the north of the Potomac, and abounding with a numerous free population, who consume more imported goods than do the same number of people scattered over the country, milk being substituted in their diet, by the greater part of the latter, for coffee, tea, and sugar, and household manufactures made use of in their apparel, instead of imported articles. Besides, the food and raiment of the colored people at the south are of the coarsest quality and cheapest price. They consume no groceries worth mentioning, and but a very small quantity of imported dry goods. This part, then, of the population in the seven complaining States, which wants but 49,917 of being equal to two-thirds of all the whites, pays a very inconsiderable portion of the duties on imports, and cannot, consequently, be considered of much importance in a fiscal point of view. It will not be unfair, therefore, to conclude, that the consumption of imports by the people in these seven States does not exceed a fourth part of what it is in the seventeen States; nor can the addition made to the revenue in that section of the Union, by the payment of duties, be in a larger proportion. Have they any just cause, then, to complain of the operation of the tariff? Can it be true that it presses on them more heavily than on the people in the tariff States? Certainly not. Nor can I persuade myself that the candid reflecting men among them are under such an impression. I will not say that the southern planters have not been depressed. I believe they have; but not more so than the farmers in the grain-growing States. The staples in these States, with the lands that produced them, have suffered as great a depreciation as the lands and staples of the south. Since the turn of things which ensued shortly after the conclusion of peace in Europe, in 1815, it has been with great difficulty that the farmers have made out to live. Great numbers of them, who had lived too freely, or embarked in wild speculations, and thereby involved themselves in debt, were ruined. And to this day, a farmer who is so imprudent as to contract debts to any serious amount, runs the risk of an entire sacrifice of his property. But this state of things has not been created by a protective tariff; so far from it, the protection given to domestic manufactures has, in conjunction with internal improvements, been the principal cause of what little prosperity has fallen to the lot of the farmer. And if it has not been participated in an equal degree by the planters at the south, (to say nothing of the character and habits of the southern people) the reason may be found in the want of manufacturing establishments located among them, and their having made little or no progress in internal improvements. Establishments of this kind in other parts of the United States have, however, created a large demand for cotton, their principal staple, which, united with the foreign call for that commodity, gives them a more extensive and certain market than is enjoyed by the grain-growers of the middle and western States. But for the extension of the cotton market by the demand of the domestic manufacturers, now estimated at \$14,000 bales, exceeding one-fifth part of all that is produced in the United States, the price would have been brought down lower than it is, and the profits of the planters correspondently reduced. There is another advantage they have derived from these establishments too important to be overlooked. The cotton and woollen fabrics manufactured at them, and consumed largely at the south, have been of better quality than like goods imported from Great Britain or elsewhere, and sold also much cheaper than the foreign would have been without the domestic competition.



9. To these advantages the southerners appear to be insensible, or rather they do not admit them to be such at all. Their cry is for a free and unrestricted foreign trade, which cannot be had without the consent of foreign nations. Our ports may be opened to them, and the duties taken off their productions when imported, but they will not reciprocate the favor by granting the same privileges to our ships and commerce. And unless this be done, the advantages of the commercial intercourse to be carried on would be all on one side—a free trade to foreign nations, but a restricted one to the United States.

10. The evil would not end here. No let or limit being set to the importation of foreign productions, they would be imported in such quantities as to exceed the wants of the country, and to glut the market. The effect of this would be to check the industry of our own people, and, by diminishing its products, to restrain and lessen the domestic trade, which, from the expansion given it by the protective policy, is now so free and flourishing between the several States. What is so promotive of the general welfare does not, however, correspond with the views which the southern malcontents have taken of their own interests. The general welfare, it is but too apparent, is not the object of the policy for which they contend. Their system, in reference to the people of the other States, is selfish, ungenerous, and unwise. It is to look to foreign marts exclusively for the sale of the commodities they grow, and to depend on foreign labor alone for supplying the necessities, comforts, and superfluities, which they want the industry, ingenuity, and enterprise, to produce for themselves. The continued introduction of the products of foreign labor, without restraint, is essential to its success. The people in the tariff States must cease to manufacture for themselves, and go on to purchase and consume them, or southern staples cannot find a market in Great Britain. If British manufactures should not be taken in exchange for cotton, for rice, and tobacco, the British merchants and manufacturers *cannot, or will not, purchase them with gold.*

[With as much reason might it be alleged by the British manufacturers, that if the importation into Great Britain of the bread stuffs, &c., of Pennsylvania and our other grain-growing States be prohibited, they will be thereby deprived of the means of importing their manufactures. It is known, however, that, notwithstanding this disadvantage in their commercial intercourse with Great Britain, these States have imported, and continue to import largely, British manufactures; that there has been an annual balance against them in their commerce with Great Britain, and that this balance has been discharged from the profits of their trade with other nations. And it may be observed, that, in the commercial intercourse of nations, it can rarely, if ever, happen that the exchanges in the commodities of any two of them will exactly balance each other. It may be added, that the balance against one has invariably been extinguished by the proceeds of a more gainful commerce carried on by it with others.]

11. We have arrived now at the true source of the apprehensions and discontents of the southern planters. They are dissatisfied because they are afraid the British market will be lost for the few objects of culture on which the labor of their slaves is employed, unless the protective policy be abandoned. Nothing short of this will satisfy them. An abolition of the duties on such imported articles only as do not enter into a competition with domestic manufactures, will not answer their purpose. The duties laid for protection must be reduced below the point of efficiency, (which is equivalent to abolishing them,) the consequence of which they well know would be the destruction or declension of the various manufacturing establishments in the United States. They also know, or ought to know, that their ruin, or even declension, would have effects the most disastrous on the interests of agriculture—the farming interests I mean. It would operate to their prejudice in a two-fold way: 1st. It would deprive agriculture of a consumption of its products, proportioned to the number of manufacturers and their operatives thrown out of employment. 2d. It would convert the most of these into cultivators; and, from the joint operation of the two causes, over-production and a glutted market would inevitably follow. To the wilderness the manufacturers and able part of the males in their service would have to go. The most of them could find employment for their capital and industry nowhere else. The females and children, so numerously and advantageously employed in factories, especially cotton establishments, would many of them be left behind, to become, from wanting the means of support, the tenants of charitable institutions, or be consigned to prisons and penitentiaries by the vices contracted from idleness.

12. Coupled with a redundancy of agricultural produce that could not find a market, and that would consequently be useless, would be the declension of commerce, foreign and domestic. As manufactures give life and encouragement to agriculture by furnishing consumers of its products, so do they both, in the materials they supply, lay the foundation of commerce, and chiefly support its existence. No State can ever attain to a great degree of wealth and power without fostering conjointly these three sources of national prosperity. If properly encouraged they exert an influence promotive of each other, and cannot fail to raise an extensive commerce.

nity like this, with the aid of wise political institutions, to the highest pinnacle of human happiness and grandeur.

13. Cotton, the principal staple of most of the southern States, is imported into Great Britain for the employment and enrichment of her people. More of them and their capital are employed in manufacturing it than in any other branch of manufactures. The fabrics, fine and coarse, turned out from her cotton factories exceed, annually, in value, it is said, \$160,000,000. Of this amount, much the greater part finds a profitable market within her own dominions, which is secured to her manufacturers by prohibitory laws. The residue is exported to foreign countries, of which the United States take annually between seven and eight millions, a mere trifle when compared to the whole. The entire loss of the market in the United States, in consequence of full supplies of cotton goods furnished by our own factories, should it take place, cannot be expected, therefore, to seriously affect the cotton business in Great Britain. It will go on, and the demand be continued and increased for many years to come for the raw material, which can no where be procured in quantity and quality equal to what it may be in the United States, and will, for that reason, be sought there and preferred. The fears of the southern planters lest the British manufacturers should not purchase with gold a material from them that is indispensable to the lucrative operation of their most extensive and valuable factories, if it cannot be obtained in exchange for their fabrics, may therefore be regarded as entirely groundless. Yet, under the influence of these unfounded ill-boding apprehensions, they would overturn, by taking away its efficiency, the system of protection which dates its origin from the first session of the first Congress after the federal constitution went into operation, and since that time has been growing by degrees to its present maturity. With its destruction, the various branches of domestic industry it was intended to foster will be most injuriously affected, if not ruined. Such, nevertheless, is the unhallowed design of the southern anti-tariffites, in which they are supported by the free-trade men, natives and foreigners, in the other States. This is the object at which they are aiming, and unless it be accomplished, and the importation of British fabrics such as are manufactured in the United States be continued, the exchanges to which they attach so much importance will not be perpetuated.

14. When, therefore, the deadly blow meditated against American industry by its enemies, domestic and foreign, in the modification of the tariff, rendered necessary by the new state of things arising from the near approach of the extinction of the public debt, is considered, the friends of protection, seeing the importance of the crisis, must perceive also the necessity of vigorous and united exertion, to prevent a catastrophe that, if not averted, will prove disastrous in the extreme to the country. It is, indeed, a question of life and death, in respect to the great leading interests of the nation, that is at issue between the advocates and opponents of the American system. What was an event of joyful anticipation (the extinction of the public debt)—what, on its taking place, will leave the resources of the United States free and unincumbered, to be applied in the ways that shall be judged best to improve the face of the country, and promote the general welfare, has, through the insatiation of the minority, become the source of dissensions, which, if not allayed or controlled by an energetic, decided course on the part of the majority, may lead to the dismemberment of this great and admired republic. This is an event that can be desired by none, and is to be deprecated by all, because every one must be sensible that the evils it would be productive of are beyond the power of calculation. Shall the majority, then, be deterred by the clamors and menaces that have been so loudly uttered at the south, from steadily pursuing a scheme of policy, the deep felt national distress produced by the want of which was one of the chief causes that gave birth to the federal constitution; and to adopt which policy, after the constitution went into operation, there was an almost instantaneous and universal call by the various classes of citizens in the Union? Since the interests of agriculture, manufactures, the mechanic arts, commerce, and navigation, have all, for more than forty years, experienced its fostering, beneficent effects, will they, yielding to southern delusion, got up partly by wrong-headed, theoretical lawyers, (not men of practical knowledge,) and in part by foreign influence, be driven to abandon it? It is believed they will not, and certainly ought not. It should be borne in mind that the majority is not a feeble one. It is numerous and powerful; and the case in which it is required to act is not one that admits of compromise. Concession cannot be made, or, if made, it would be in effect to foreign nations, who would profit by it, and not to the minority, to whose prejudice, as well as that of the majority, it would most assuredly operate. The industry of the latter being paralyzed by the imprudent concession, slave labor, on which the former are exclusively dependant, could not avoid its injurious effects. The domestic demand for cotton, the great southern staple, would be diminished. More of it, from that cause, would be exported to European markets, in which, the supply outstripping the demand, the price would decline. And the com-

petition of the domestic manufacturers of cottons and other fabrics being lessened, foreign goods of like kinds would come more into demand, and bring more in the American market.

15. Could the advocates of protection meet their opponents on middle ground, without sacrificing the interests requiring to be sustained by legislative succor, which cannot be done, because the duties imposed must be high enough to be efficient, or they would be worse than useless—still this would not do. It would be no more than a small advance towards a compromise. Protective duties, as such, are denied by the southerners to be constitutional; and, if necessary, if not avowed purpose, is to destroy manufactures. Without this is effected, Great Britain, the principal mart for their cotton, rice, and tobacco, will not, according to their commercial creed, be furnished with the means of taking them. She will give her fabrics in exchange for them, but not her gold. These must be imported without restriction, and consumed. Our manufacturers must be broken down, their capital rendered useless, and the people in the factories discharged from their service to look for employment elsewhere, if they can find and pursue it; but, if not, to perish for the want of it. A hard case, surely, and one that, if permitted, would bring everlasting reproach on the majority.

16. There was a time when, in every State of the Union, the doctrine was fashionable that the necessities and comforts required in our state of society should, as far and as fast as the circumstances of the country would admit, be produced by our own people. It was a false idea that their industry should be encouraged, and the United States rendered independent of foreign labor for all essential supplies. The public sentiment at the south on this subject has within a few years, undergone a great change. Of this the introduction of the cotton plant and the extensive cultivation of it, have been the principal cause; *its culture* is to be encouraged and sustained *now*, although every other branch of American industry should be promoted. The wants of our people are to be chiefly supplied by exchanging it for the various European fabrics in demand, because (as the southerners maintain) they can be imported cheaper than they can be manufactured in the United States. Could this be done, which is not *admitted* unless a sacrifice be made by the importer, or the duties be eluded, it would be unwise in Government to permit the products of domestic industry, which used its interference, to be crushed by an unrestricted importation of similar wares. The difference in price would be a little or no consequence among ourselves, so long as the domestic articles should not *curb* the consumption of the country, the advantages arising to our citizens, in many respects, for their production being more than a compensation for that difference. When they *reach* that point, and the surplus to be disposed of must be exported to foreign markets, it becomes important, relatively, to other countries where like articles are grown or manufactured, that they should be afforded low enough to enter into a successful competition with them.

17. The southerners, in discussing the subject of protective duties, do also speak of *them* as having been imposed for the sole advantage of the manufacturers, which is not true, the agriculturists, mechanics, artisans, and laborers, partaking very largely of their benefits, and, indeed, every other class of citizens in some degree, either directly or indirectly. For this reason they are more properly to be regarded in a national point of view, than as favoring the interests of the manufacturers only.

18. Protective duties operate on foreign manufacturers by reducing their prices and profits, otherwise their fabrics could not be imported so as to enter into competition with domestic manufactures. This circumstance, combined with the competition, the effects both of the impost brings the price down in the market, and favors instead of oppressing consumers.

19. When protective duties have performed their office in part, or in whole, by diminishing the importation of foreign rival productions, or by excluding them altogether, why should they, as recommended by some who profess to be friends to domestic industry, be either *abolished* or reduced? They are not to be considered as taxes, (in which light they are constantly represented by the advocates of free trade) and can do no harm, but may do good by preventing *it*. So far from operating as taxes, domestic productions that have been efficiently protected are now selling, some at prices very little exceeding the impost, while the market price of *others* is below it; for instance, cotton cloths of the coarser kind may be had of good quality *for* *less*, that is 3-4 cts. below the duty per square yard. So nails, glass, gunpowder, chemicals, and other articles of domestic manufacture, protected by adequate duties, if not reduced in price below, or to an equality with, the duty, bring but a small excess beyond it. Why, then, it is asked again, should these duties be abolished or reduced? Should they finally exclude foreign, they will not destroy domestic competition. Not only so, being retained they will serve as safeguards to prevent the intrusion of foreign goods, when gluts in foreign countries are occasioned by over-production or other cause. These must be disposed of at a loss, or perish in the hands of foreign manufacturers; and, if not prevented by restrictive duties, would inundate the country like the swellings of the rivers and the inundations of the sea, when not resisted by banks and mounds.

## DOCUMENT 20—Continued.

20. The effect of this tariff on the culture of cotton is known. That it continues to be prosecuted, and annually extended, shows that it is too profitable to be relinquished. But should the protection given to manufactures be reduced below the point at which it is efficient, (beyond which it is believed not yet to have been carried) although it is well understood that the effects of the reduction would be pernicious, yet the extent of the injury that might ensue cannot be fully anticipated. Whatever depression may have been experienced by the planters of cotton, (to be ascribed principally to over-production) still they go on. But the most of the manufacturers, if not obliged immediately to wind up their business, would ultimately, it is apprehended, be reduced to the necessity of abandoning it.

21. A reduction, however small, of the protective duties would be viewed in Great Britain and other foreign countries as indicating a change of policy in our Government, and encourage their merchants and manufacturers to surcharge the American market immediately with their wares of rival character with domestic productions. These, after being imported and entered at the custom-houses, would, as every one knows, be sent straight to auction, and struck off to purchasers at whatever price they would bring in cash; the importers, by the by, having the advantage of long credits on the bonds given for the duties. The consequence of this would be, that domestic manufactures could not find a sale in their own market, which ought to be secured to them, except at ruinous prices. A general shock would take place among the manufacturers: the operatives, artisans, and laborers connected with the factories, would be deprived of employment; and the metallic currency, as it has always happened after excessive importations, be drained from the country to make up the deficit of exports in paying for the imports. The banks being disburdened of their specie, would of necessity be compelled to curtail their discounts, and call on their debtors for the payment of their notes. A general stagnation in business, and bankruptcy, its never failing concomitant, might then be expected to follow.

22. The doctrine of the constitutionalists at the south in regard to protection, is, that the Federal Government possesses no power directly to extend it to manufactures and other articles of domestic production. They may be encouraged incidentally through the operation of duties laid for revenue; but revenue alone must be the object of laying them. When, therefore, a revenue is not required by the exigencies of the country which would warrant the imposition of duties high enough to be adequate to protection, the Federal Government can give none. And as the States, in adopting the constitution, divested themselves of the power they antecedently possessed, of counteracting the policy of foreign Governments through regulations of commerce, by means of the imposition of duties or otherwise, there is no power in the State Governments to protect domestic industry. Being possessed, then, by neither the Federal Government nor the State Governments, domestic industry can be pursued only at the mercy and by the sufferance of foreign nations. It is utterly defenceless and hopeless. Can this be true? I think not. Without referring to those grants of power in the federal constitution from which the friends of the American system derive the right to protect domestic industry against the rivalry of foreign labor, I contend that this great republic, whose constituent members are the States, and which, by the act of constituting it, became merged in its existence, and denationalized, so far, at least, as respects foreign nations, possesses, in its own sovereign and independent character as constituted, full authority to protect the property of its citizens on land as well as by sea; and that the denial of it in the former, while it is admitted in the latter case, involves absurdities too gross to require a refutation. It is tantamount, if property be identified with the persons who own it, to not allowing it (the republic) the right of self-preservation. For if the Government cannot, by commercial regulations, under the form of duties or prohibitions, or, in other words, countervail the policy of other nations, when operating to the injury of American interests, or any portion of them, it is destitute of this right, a right which, by the law of nature, holds the first place in the catalogue of human rights, whether mankind be considered individually or associated in communities.

23. It is for the interest, let it be repeated, of the people of every country which claims the attribute of sovereignty, to be as little dependant as possible on other nations for the necessities, comforts, and even superfluities of life. It forms its own political institutions, enacts its own laws, and controls its own citizens, in their trade with one another. In these respects, it can have nothing to do with the concerns of other nations. It has no power to interfere in them, so as to dictate their forms of government, their municipal laws, or their commercial codes. The utmost that one independent community has a right to do in respect to other such communities, is to cultivate peace and commerce with them, and so to regulate its relations with all, by treaties and conventional arrangements, as will best promote those objects. The welfare of its people can be better provided for by directing its chief attention to their internal affairs, in cherishing the various branches of their domestic industry, and promoting, by affording facilities to, their commercial intercourse at home, which it has the power to regulate, than by

seeking it in a too eager pursuit of foreign commerce, over which it can exercise no further control than is accorded by foreign nations. By pursuing this course, it enhances in reality its facilities for carrying on a lucrative foreign trade, which consists in exchanges of the surplus productions of one nation for those of other nations, according as their mutual wants can be supplied each by each.

24. Much sympathy has been expressed for the poorer classes of citizens, because, in adjusting the tariff, higher duties were imposed on the coarser cotton and woollen cloths than on the finer. In this Congress manifested their wisdom, as, on several accounts, it suited the manufacturers best to commence first with the coarser. No disadvantage has resulted to the poor from this cause, the manufacturers concerned in cotton and woollen establishments, and others, having given them more employment and better wages than they would otherwise have obtained. This benefit would have more than counterbalanced the evil of higher prices had they really existed; but, if there be any truth in the foregoing statements and remarks, these fabrics have been afforded not only cheaper but of better quality than they would have been had there been no domestic competition: for it is well known, that high duties, when not evaded, have a greater effect in reducing the prices of protected articles than moderate ones. But the enemies of the protective policy uniformly represent high duties as high taxes, making no distinction between those laid for protection and those for revenue only: for instance, on imports the like of which are not grown or manufactured in the country, such as teas, coffee, &c. On these as well as on manufactures or agricultural productions in their inchoate state, high duties, if laid, are admitted to be high taxes.

25. Another objection made to high protective duties is the danger of smuggling occasioned thereby. This has been so often urged, and, in my estimation, has so little weight, that I shall pass over it, by simply observing, that smuggling has, in all countries and under all tariffs, been practised to a greater or less extent, according to the opportunities presented of evading their revenue laws, and to the greater or less degree of vigilance and fidelity exercised by custom-house officers in executing them. The revenue of the United States has been a great deal more defrauded by means of the false invoices of importers than by smuggling. This is so notorious that Congress ought to meet the case promptly with new legislative provisions for enforcing more strictly the revenue laws, so as to prevent frauds in future.

26. It has been said, that iron manufactured beyond the mountains, or far in the interior, is not within the reach of competition by imported iron, because the carriage of it, in its different forms to distant places from the points of importation, would, on account of its weight, be too expensive to be borne. This was true before the construction of canals and railroads, and the propulsion of boats and cars by steam. These improvements have made the transportation cheaper, and in proportion as they progress the expense will be still further diminished. It deserves consideration, therefore, whether, under this altered state of things, there be no danger of competition. The domestic supply of this article, in all its forms, has, in consequence of the additional protection given in 1828, been very much increased. It is now quadruple in quantity what is imported. The iron-masters have not had time to supply fully the demand of the country for it yet, though competent to do it in a little while, should the protection given be not withdrawn. And if the importation of foreign iron has increased, (much has been imported under surreptitious names to elude the duty) it is because our population has been increasing and with it the demand. Meanwhile the duty, with all the evasions of it by fraudulent importers, has been operating on the foreign iron masters. Their profits have been diminished, and, from the competition created between them and the domestic iron-masters, the supply having been greatly augmented, the price is reduced to consumers.

27. The same may be said of sugar, which has been adequately protected. More has been thrown into the general market of the commercial world in consequence of the cultivation of the sugar cane, and the manufacture of that commodity in Louisiana, which has caused a depreciation of it. But should the duty be reduced, the planters there will be no longer able to sustain a competition in our market with the West India planters, where the climate is more genial to the production of the sugar cane. They would be compelled to relinquish the business, now considered profitable, even at the present reduced price of sugar, and of great advantage to other parts of the Union, by reason of the freights it gives to a large coasting and river tonnage, and of the various supplies furnished by the farmers and manufacturers for carrying it on. The capital and labor thus employed would, as an only resource, be transferred to the culture of cotton, which would produce a further depreciation in that article by adding to its already excessive production. The property in slaves would, from the same cause, experience a similar fate.

28. Salt is a necessary for the supply of which the United States should look to their own citizens, who can manufacture it to the full extent demanded by the country if suitably encou-

raged. The reduction of the duty on it has not been followed by a declension in the price, and was, in my opinion, unwise, as it would be still more so to reduce it further; for it might prove destructive to the manufacture not only on the Atlantic coast, but beyond the mountains also, for the reasons assigned in respect to the transportation of iron.

29. Hemp and flax, and the manufactures thereof, being indispensable articles in furnishing vessels of all descriptions, national and mercantile, with their tackle and apparel, their protection ought to be efficient. As established at present, the duties on the raw materials may be too high for the fabrics manufactured from them. In that case, I would say, raise them on the latter, so as to countervail the protection given to the former, which should be retained; and so in regard to all manufactures the materials of which are domestic, and require for their support legislative interference. As a further instance, take the different kinds of cutlery manufactured from iron and steel; don't lessen the protection afforded to these materials of ruder manufacture, but increase it on the finer.

30. The high impost on indigo and coarse wool, the first produced to a very small extent, and the second not grown at all, in the United States, is injudicious, and should be lowered. The ingredients and raw materials of manufactures, if not found or produced in the country, ought not, on their importation, to be taxed at all, but, for the promotion and encouragement of the fabrics for which they are required, should be permitted to be imported duty free.

31. Stone coal is to be found in inexhaustible quantities in many parts of the United States, particularly in Pennsylvania. The regions in which it, as well as iron ore, abounds, are so sterile as to be otherwise of no value. A great number of quarries have been recently opened, the proprietors of which are working them advantageously; and the facilities of transportation to the principal seaports, by canals and railroads already constructed and constructing, are such that an abundant and cheap supply of this valuable commodity in every part of the Union where it is wanted, and for exportation, may soon be confidently expected. I should deem a reduction of the duty on it, therefore, highly impolitic.

32. I might go on to take a particular notice of leather and its manufactures of hats, caps, and bonnets made of grass, of the manufactures of brass, copper, and lead, and of every other production embraced in the circle of American industry, but I shall decline the tedium of a further detail. They all look to the Government for support; they all claim its protection, and they ought all to receive it—not a doubtful, feeble, or intermitted protection, but one that is certain and steady, full and efficient.

33. Hitherto the various branches of American industry have been fostered by the Government as its succor was needed. The protection given was small at first, afterwards more was given, as more, from time to time, was required, until the protective tariff was raised, in 1828, to what it now is. The staples of the south have been as well or better protected than the productions of the north. All have shared the kind parental care of the Government, and all have prospered under its wise enactments. Its wisdom has been exerted abroad, also, in placing the commerce of the country, by treaties and commercial arrangements with foreign nations, on the most advantageous footing that was practicable. Having performed its duty in manner and degree as described, the various classes of citizens have been left free to engage in whatever pursuits suited them best, and to dispose of the products of their labor at home and abroad, wherever it could be done most profitably. None, then, have a right to complain. The Government having done all it could do to sustain and promote the interests of all, if all have not been equally benefitted it must be ascribed to the kind, quality, and quantity, of their respective productions, to the demand for them in the domestic and foreign markets, to their facilities of transportation or their want of them, and to their own peculiar character for intelligence, industry, enterprise, and economy. Without being distinguished for the latter, it is impossible that any people, under any system of public measures, however wise, can prosper and flourish in an equal degree with those who are thus characterized. In these respects, the southerners are inferior to the people of the eastern, middle, and western States; especially the former. In the six New England States it is a rare thing to find an adult who, if not liberally educated, has not had the benefit of a good English education. The diffusion of knowledge by means of schools and seminaries of learning, established wherever wanted, has, from the first settlement of these States, been an object of primary concern with the people thereof. The fruits produced by the system of education established, have corresponded with its excellence. Its advantages, combined with (what appears like a paradox) the sterility of their soil and ungenial climate, have been the principal sources of their prosperity. Their ingenuity and invention, whetted by the first cause, and their industry stimulated by the second, there is no country, no sea, no climate, contiguous or remote, which has not witnessed their enterprise. Denied by the barren region they inhabit, and its cold northern situation, the benefits imparted to the people of the other States by more fertile lands and a milder climate, the fisheries, navigation, commerce, manufac.

tures, and the arts have all engaged their attention, and given diversified employment to their capital and industry. Contrast the condition of the people of the south with theirs, and it will be seen how little enviable it is in a comparative point of view; how little they have effected in disseminating the benefits of education among themselves (the opulent excepted); how little they have improved the natural advantages they enjoy; how little they have done and are capable of doing, to administer to the various wants of civilized society! The sons of the wealthy have been sent mostly to the northern seminaries for instruction in classical learning and the sciences, but the mass of the people, for the want of elementary schools and scientific institutions, have been condemned to a state of gross ignorance. In the manual labor performed by their slaves and directed to the culture of a few staples, their industry almost entirely consists. Having no concern in manufacturing establishments, nor acquaintance with the arts, scientific power, productive of such wonderful effects when applied to these, is lost to them, with all its benefits. Nearly as little interested in commerce and navigation as in manufactures, the few staples they raise are not transported to distant marts by themselves, and exchanged for the wares called for by their wants, or the wants of the country. They are disposed of to merchants and shippers from the eastern and middle States, and to foreign agents, who transport them to the ports in those States, or to Great Britain and other European countries.

34. Is the minority, then, constituted and characterized as above described, possessing as undue representation in the National Legislature, partaking of the burdens arising from taxation in a slighter degree than their brethren of the majority, and sharing with them the benefits of governmental protection in at least an equal degree—is the minority, I say, the seven discontented States, to be indulged by the seventeen States that are in favor of adhering to the long settled policy of the protective system, in their demand of a surrender of that policy, in the continued support of which is involved their best interests? No; the surrender cannot be made. The representatives of the majority in the National Legislature, unless they betray their trust, can never consent to the ruinous sacrifice. Were the majority to yield now to the complaints and menaces of the minority, the precedent, once set, might lead to the worst consequences. It would be relied on hereafter, there can be but little doubt, by minorities on trying occasions like the present, to sustain them in thwarting and defeating the measures of majorities, and would subvert, thus, the fundamental principle of the Government, by substituting the will of the former for that of the latter. For this the southerners are now striving. Formerly, in the Convention which formed the constitution of the United States, they asked for a disproportionate representation in federal legislation, and it was conceded to them. What have the free States gained by making that concession? Nothing—worse than nothing, for it has emboldened the southern slaveholders to rise in their demands. Then there could be no constitution formed unless this unfair concession was made and ingrafted in what was to become the fundamental law of the Union. Now, the principle that the majority shall rule, the great distinguishing feature of republican government, must be given up, or the Union must be dissolved.

35. The people of the United States are truly in a most deplorable dilemma. If the majority pursue on the question of protection, as I maintain they ought to do, a firm, uncompromising course, (for reasons already assigned) it will, if the southern malcontents are to be credited, be death to the republic. On the other hand, should they, consulting their fears, impudently yield, there cannot be a doubt of its dissolution. The character of the Government will be gone. It will be converted into an oligarchy, and one of the worst kind—a Government of aristocratic slaveholders, containing within itself the elements of its own destruction.

36. Should the malcontents in South Carolina be mad enough to execute their threats of resisting the tariff laws as they exist, or may be modified, it will become the duty of the Executive to resort to military coercion for enforcing them. Compelled to submit, the discontented in other States at the south would in her fate read their own, should they imitate her example, and would remain quiet. But is she permitted to bid defiance to the authority of the Government with impunity, the spirit of insubordination and resistance would not be confined to her; the neighboring States would soon be infected with it.

37. The excise law under the administration of Washington was not less unpopular in Pennsylvania and the western parts of Virginia, than the protective tariff is at this time in South Carolina and others of the southern States. It was denounced as unconstitutional, unjust, and oppressive, by those who were opposed to it; and the discontents rose so high at length as to cause an insurrection in the former State. And it is remarkable that one who has lately ranged himself on the side of the southern advocates of free trade in opposition to the interests of a people who so long cherished him, was suspected of fomenting the insurrection. The father of his country perceived the danger of the crisis, and did not shrink from the responsibility attached to the executive trust he held. He acted with the promptitude, decision, and energy, which the occasion required, by calling out the militia, and quelling the insurgents; after which there

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was no more trouble in enforcing the excise law. Indications of resistance to federal authority in Pennsylvania, under the administrations of Mr. Adams, the elder, and Mr. Madison, (under the latter by the Executive of the State) were also manifested, and speedily suppressed in both cases.

38. From the preceding historical detail, it will be seen that, on three several occasions, the citizens, or constituted authorities of Pennsylvania, have resisted, or made a show of resisting, the authority of the Federal Government, and have as often been reduced to submission by the arm of the Federal Executive stretched out against them. Let the political fanatics in South Carolina, who, by constantly declaiming against the alleged unconstitutionality and injustice of the tariff laws, have done so much to excite the popular prejudice against them, and under *their exalted notions of State rights*, have so preposterously recommended nullification of the obnoxious statutes by State authority, as the rightful remedy; let these deluded fanatical agitators, I say, pause for a moment in their mad career, and take warning from what has happened in Pennsylvania. I would particularly recall to their remembrance the fate of Captain Tries, who figured at the head of the insurgents in that State, and who, for his active participation in the insurrection, was arrested, tried for his life on the charge of treason, convicted, and condemned to expiate his crime on a gibbet.

39. It will not be long, it is apprehended, before the public lands will become a subject of contention between the new States and the Federal Government. Indeed, the strife has already begun. There are citizens in those States who have advanced pretensions in their favor to the public lands contained within their limits, utterly incompatible with the rights of the United States. And should the majority, on the question of protection, succumb to the minority, what are now stated as pretensions by a few only of the wildest among the western politicians, will be soon claimed as rights by the people generally in that section of the Union. Many plausible reasons will be urged in support of these claims, first and foremost of which will be State sovereignty. There being a moral certainty, after the national debt shall have been discharged, the aboriginal title to the public lands extinguished, and the western people thereby relieved from further apprehension from the Indians, that they will assume a new and more imposing attitude in relation to this great national concern, it is incumbent on the majority to display unshaken firmness in meeting and putting down the opposition of the southern minority in the present controversy. *To doubt its own strength to enforce its own will, would prove fatal to its authority.* It would be an indication of weakness that would be equivalent to an absolute surrender, and the evils that would result from it would be infinitely greater than those attending a prompt, energetic exertion executing its rightful powers; as the one would be of a temporary, circumscribed nature, the other perpetual and indefinite in their extent.

40. In asking a reduction of the duties on protected articles, the pretext of the southerners is to favor consumers, but the real object to prostrate domestic manufactures. In proportion to the degree in which they flourish under legislative patronage, the importation of British competing wares exchanged for their staples is prevented. Hence their hostility to manufacturing establishments; hence its extension also to internal improvements. They want the revenue razed to the lowest point the current expenses of the Government will allow, that no aid may be afforded to either the one or the other. In their prejudices against manufactures, it is to be observed, that they differ from their oracle in political economy, Adam Smith, who admits their importance to agriculture, though will not allow them to be encouraged by commercial restrictions. He says: "Whatever tends to diminish in any country the number of artificers and manufacturers, tends to diminish the home market, the most important of all markets for the rude produce of the land, and thereby still further to discourage agriculture." As consumers, the abolition of the duties on unprotected wares would relieve them in the same manner as the reduction of them on imports generally, protected and unprotected, would do. A sufficient diminution of the revenue would not, however, be effected by the proposed abolition, to answer their views; under it there might be a surplus of three millions, or more, which they would sooner see thrown into the sea than applied to any object that would promote the national welfare. Moreover, they object to any abolition of the impost on unprotected articles, some of which are denominated luxuries, and not reducing it on those which are protected: such, for example, as the coarser cotton and woollen cloths that are said to be, and really are, necessities, because they allege it would be favoring the rich, and doing nothing to relieve the poor. In answer to the objection, it may be said that articles of foreign merchandise imported without meeting domestic competition, are not to be expected, because the duties have been taken off them, to decline correspondently in cost for as much as the removal of the impost being known in foreign countries, a higher price might be demanded; or, if that should not be done, the importer might, to enhance his profits, vend them at nearly their antecedent prices. Be this as it may, those wares which find rivals in similar productions of the country, will undergo the greatest diminution in cost.



41. Sound reasons may, in my estimation, be urged why the revenue should not be reduced, at this time, below, \$18,000,000. Considering the threatening aspect of things at the south, and the unsettled condition of Europe, it would, I think, be imprudent to put the reduction below that amount. It is not known what a year may bring forth: It is not known what calls there may be for money either to avert evil or to achieve good. It would be unwise, therefore, not to provide a revenue sufficiently liberal not only to meet the current annual expenses of the Government, but to allow something for other objects connected with the national welfare, and to be prepared at all times for emergencies not anticipated, whatever they may be. But if we are to be relieved of a surplus so much dreaded by the southerners, and the danger of a deficit in the revenue is to be incurred, then I would do what they would less approve than leaving untouched the protective duties. I would, from and after a specified day, prohibit the importation of foreign fabrics, the rivals of such domestic manufactures as have reached the point of fully supplying (or nearly so) the wants of the country. Indeed, whenever a manufacture has arrived at, or approximated, a plenary supply of the domestic demand, its importation ought, as in other countries, to be interdicted, or the duty raised so high as to amount to a prohibition. The United States and their territories, with their present numerous and rapidly increasing population, would afford a field sufficiently extensive, in all reason, for competition, after the foreign is withdrawn. On this point no doubts should be entertained. That I am right in so saying, I have only to adduce for proof the low prices of the productions in foreign countries that have secured to *their own people their own markets*, by prohibitory laws. Great Britain, France, Holland, Germany, and Russia, have all guarded in this way the industry of their people, and such of them as have at any time discontinued the prohibitory policy, have been obliged to return to it.

42. There can be no question that some of the tariff provisions intended for protection are susceptible of improvement. There has always been, and ever will be, opposition, more or less, to a bill of that description when introduced in Congress. This was eminently the case in 1823, when the tariff was revised and altered for the purpose of extending more efficient protection to such branches of domestic industry as needed it. Its enemies assailed it with unusual rancor, and, among its professed friends, there were some wrong-headed and some treacherous men, who united with its enemies in deteriorating its character. With its defects, such as they are, it has, nevertheless, been instrumental in doing much good. The manufacturers have arranged their business so as to suit its provisions, and would, it is believed, with some new enactments to secure a more effectual execution of it, be willing to let it remain as it is, rather than run the risk of having it made worse by a revision. This, however, cannot be avoided. The revenue must be brought down to the measure of the national exigencies under the altered state of things. But, in adjusting the tariff with a view to that end, it would, in my judgment, be best that the reduction should be gradual, not too sudden and too great at once. And in fixing ultimately the amount of revenue to be raised, it should not be marked by an improvident, ill-judged parsimony, that might, in unforeseen circumstances, endanger the public safety and welfare. In the adjustment, the protective principle, instead of being legislated away in concession and compromise, (for which there is reason to fear some of its friends are prepared) ought to be retained, and its efficiency strengthened, if necessary, by new provisions.

43. The valuation hereafter of imported goods in America, not in foreign ports whence exported, and the substitution of cash payments for the long credits on duties granted to importers, should they be determined on, would go far towards improving the condition of the manufacturers; and, in meliorating their condition, let it not be supposed that *they only* will be benefitted. The cultivators of the soil, the mechanics, and artisans, I repeat, will be benefitted; the proprietors of divers kinds of sands, earthen, and minerals, will be benefitted; the men, women, and children in the factories will be benefitted; the miners, quarriers, wagoners, wood-choppers, and laborers, occasionally wanted at these establishments, will be benefitted; the interests of commerce and navigation will be promoted, and the wealth, power, and independence of the nation augmented.

44. So far from being monopolists of the advantages produced by the protection afforded them, the manufacturers, in comparison of the great number and variety of classes whose interests are promoted by it, share but a small portion, and that always attended with more or less risk and uncertainty, whereas the benefits derived by others are positive and certain. The truth of this is too apparent to be denied by any but interested foreigners, and those of our own citizens who are either under the influence of foreign connexions, or whose minds, in the absence of useful practical knowledge, have been perverted by false theories, and erroneous views of their own and their country's interests created thereby.

45. The manufacturers are not unreasonable in what they require. They wish not the gains of other classes of citizens to be transferred to them; nor have they, as alleged, *been so transferred*. The reverse of this is the fact. They (the manufacturers) have, from the encouragement given them by the Government, been the authors of much good to the community, with

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very little participation in it themselves, as just stated. They ask not for a continuation of protection under the expectation of high prices for the products of their industry and skill. Past experience has admonished them sufficiently on that point. Each successive tariff has been followed by a further declension of prices. They will be content with moderate gains, if rendered certain by the American markets being secured to them. They want protective duties, not to enhance the prices of their fabrics, but to prevent foreigners from disgorging on our shores productions of similar kinds to theirs, to the great injury of themselves and the rest of the community. The strife in which they are engaged with foreign manufacturers is, with all the legislative aids that have been extended to them, hazardous and unequal. The foreign manufacturer, having full possession of his own market, vends at a living price much the greater part of his wares at home, and what he can't dispose of there is sent here, fraudulently entered, in many cases, at the custom-houses, and then sold at auction for the best price it will bring in ready money. Just so much of domestic goods as his sales amount to is driven out of their own market, to the prejudice of the American manufacturer, who, unlike his foreign competitor, has not other markets besides the one at home on which he can rely for the disposal of his wares.

46. A remark or two more on the subject of concession in modifying the tariff may, on account of its importance, be excused, before this communication is brought to a close. Concession or a remission of right, productive of no immediate bad consequences, was, in a few instances, made in the Federal Convention, when a constitution was to be formed. The case is now very different. A surrender of their interests is asked from the majority, which would be suicidal. The reduction of a system of protection extended to the various branches of domestic industry, commenced so early and continued so long as to have become the settled policy of the Government, is demanded by the minority, and demanded in a tone of bullying and menace that should cause it to be utterly disregarded. I do not mean to say that the insulting menacing conduct of the minority has released the majority from the obligation of doing what is right. They are morally and politically bound to do; and, having so done, they are then to look for acquiescence in their will, as manifested by their acts, from the minority.

47. I will remark further, that concession, at the time the constitution was framed, was made under very different circumstances from those in which it is now asked. Then the Government was merely nominal, a shadow without a substance, and the affairs of the Union, from the want of power in the Government, had fallen into the greatest disorder. But now there is a well organized Government, the powers of which require only to be wisely and fearlessly wielded by the majority, to secure the ends of its institution.

48. Much as the people of the United States are addicted to the love of peace, it is not to be expected that war can always be avoided. The millenium has not yet arrived. Causes of war will be occasionally given by foreign nations, which, if not removed by negotiation, must end in appeals to the sword. Disobedience to the authority of the Government by a part of the people, or of the States, is also to be looked for sometimes, and, whenever it occurs, ought to be immediately repressed, or all respect for the Government will be destroyed; the certain consequence of which would be a cessation in the exercise of its powers. The time, in my opinion, is near at hand when these powers are to be put to the test. South Carolina, in the conduct of her Governor, her Legislature, her Representatives in Congress, and a large part of her people, has shown a disposition to bid defiance to the Government, should not the majority yield to her demands. This cannot be done without violating the rights and sacrificing the interests of the community. The Government, therefore, in the event of resistance, has no other alternative but, by the promptitude and energy of its action, to punish those misguided citizens who may be found in rebellious opposition to its laws, and to coerce the State to which they belong, and under the sanction of whose authorities they shall act, to return to its duty.

I have the honor to be, with great respect, your obedient servant,

ANDREW GRAY.

HON. LOUIS McLANE.









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